

**PHOENIX FIBER STUDY
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EXECUTIVE SUMMARY

POWER Engineers, Inc. (PEI) has developed a cost model for the purpose of estimating the construction and equipment costs for Competitive Access Providers (CAPs) in the Phoenix, Arizona MSA, to displace existing U S WEST Communications (U S WEST) hi-cap services (DS1 and greater bandwidth). The model estimates the cost of extending fiber-optic cable links from existing CAP backbone fiber routes to current U S WEST hi-cap customer locations (locations), based upon the airline distance from the location to the nearest CAP route. The model also includes the equipment and labor costs to terminate circuits at the locations, duplicating the service level now provided by U S WEST.

Major cost elements in the model are:

Structure costs - the aerial line or buried conduit path for the cable.

Access costs - to access the CAP fiber cable and the customer building.

Cable costs - including installation from the customer location to the CAP fiber route.

Equipment costs – including installation at the customer location plus incremental items needed at the CAP hub.

The model provides “broad-gauge” costs, sufficiently accurate for capital budget planning for constructing connections to a large number of locations, but not suitable for site specific costs. To develop the cost model, costs were divided into distance sensitive elements, such as the length of the fiber cable for each location, and non-distance sensitive elements (at the distances assumed in this study), such as transmission equipment.

Distance sensitive cost factors were developed by grouping locations into distance bands by airline distance from the nearest CAP fiber route. Then a random, statistically valid sample of locations in each band was surveyed. Probable paths to the CAP routes were determined and distances were measured for each sample. Physical factors which contribute to costs were noted, such as type of structure (aerial or below ground), surface or aerial line conditions, etc. Detailed cost estimates were developed for each sample location. Average path costs per location by distance band for the locations in the sample were computed for application to the total population of U S WEST service locations. Path costs were calculated on the basis of a single entrance path to each customer location.

Non-distance sensitive cost algorithms, consisting of equipment costs including installation, were developed on the basis of the type and number of services provided. Automatic alternate route protection was assumed where service requirements exceeded three DS1's. This provides switching to an alternate path on the backbone fiber ring, should a failure occur on the primary backbone path.

Estimates of construction time per location were also developed. The average time per location is estimated to be two weeks. Considering probable actions by local governments to minimize traffic disruptions and other public inconveniences, it is estimated that a 100% buildout would require

two-and-a-half to three years. A build, which took in the 49% of customer locations within 1,000 feet of an existing CAP fiber route, is estimated to require one-and-a-half to two years.

An assessment was also made of the wireless alternative for providing hi-cap services.

Cost Model results are summarized in the table below:

DISTANCE BAND (IN FEET) FROM NEAREST CAP FIBER ROUTE	NUMBER OF LOCATIONS WITHIN THE BAND	% OF TOTAL LOCATIONS WITHIN THIS BAND	AVERAGE COST PER LOCATION	TOTAL COST FOR ALL LOCATIONS IN THE BAND
0 TO 1,000	1,508	48.63%	\$29,596	\$44,631,239
1,001 TO 2,000	578	18.64%	\$33,211	\$19,195,750
2,001 TO 4,000	561	18.09%	\$54,667	\$30,668,367
4,001 TO 9,000	454	14.64%	\$71,126	\$32,291,231
ALL LOCATIONS	3,101	100%	\$40,886	\$126,786,587

II

STUDY OBJECTIVES

A. Fiber-Optic Cable Costs:

Develop a broad-gauge engineering assessment of the costs for Competitive Access Providers (CAPs) in the Phoenix, Arizona MSA, to displace existing U S WEST hi-cap services (DS1, DS3, OC-3, OC-12, OC-48) by extending fiber-optic cable links from existing CAP fiber routes to current U S WEST hi-cap customer locations (locations). This includes the provision of automatic, alternate routing where service requirements exceed three DS1's.

B. Wireless Transmission:

Review the potential for CAPS to utilize wireless transmission as an alternative means of providing hi-cap services.

III

ESTIMATING METHODS AND ASSUMPTIONS FIBER-OPTIC PATH COSTS

TASK:

Develop a broad gauge engineering assessment of the costs for the path from a customer location to the nearest CAP fiber cable route.

DESCRIPTION:

These are the costs from each location to the nearest access point on the nearest CAP fiber route. This includes the cost of the structure, which carries the fiber-optic cable, the cost of the cable, and the cost of placing and splicing the cable.

The cost of the structure is the largest cost element. Many variables determine structure costs, the most significant being the distance and the type of structure. Structures assumed in this study were either aerial (typically joint use on an existing aerial line), or below ground in conduit.

Unit costs (\$/ft) for aerial structure vary based upon whether there is an existing, adequate joint use line, or whether the line must be reinforced or extended, or be newly built.

Variables which drive unit costs for below-ground conduit include the type of surface (e.g. asphalt, concrete, sod, etc.), the type of soil (e.g. sand, calciche, rock, dirt, etc.), the type of construction (e.g. trenching, boring, plowing, etc.), the depth at which the cable is to be placed, the location of existing buried utilities (sewer, water, gas, etc.), backfill requirements, restoration requirements, the need for additional utility holes to access backbone routes, and permitting costs. Other impacts, such as the need to perform work during non-peak traffic hours, may apply, depending on the jurisdiction and the season.

Fiber cable costs were based on length calculations; described below; multiplied by a cost per foot loaded to include estimated costs of installation.

ASSUMPTIONS:

Building entrances – it was assumed that each location will require a new building entrance, whether aerial or below ground.

Path types – it was assumed that the mix of aerial versus buried plant identified for locations sampled, could be applied to the entire population of customer locations, again, by distance band.

Depths for below ground paths – a depth of four feet from the surface was assumed.

Joint paths for adjacent locations – a portion of most paths from backbone routes to locations are shared between adjacent locations, or among multiple locations that lie near a common path. It was assumed, on the basis of the experience of a knowledgeable local contractor, that on average, path costs developed on a “stand-alone” basis for each location, should be reduced 40% to reflect this cost sharing effect, to reach a true average path cost per location.

Access to backbone routes - it was assumed that a utility hole would need to be added for splice access to the backbone fiber route, for buried paths, if there were no observable access points within 500' of the point on the backbone fiber nearest the probable path to the location.

Utility holes - for most locations, access to the existing CAP fiber route is readily available via existing utility holes or aerial splice enclosure. However, in many cases access would require placing a new utility hole. The proportion of sample locations, by band, for which additional utility holes would be needed, was calculated. This proportion was applied to the total population of locations within the band to the utility hole component of total path costs.

Utility hole sharing among multiple paths – every splice in a fiber-optic cable creates a loss of signal strength. To minimize these losses, the number of splice locations along backbone fiber routes must be minimized. This requires that the number of access points for paths to customer locations also be minimized. As a result, each access point along the route is typically used to connect multiple paths leading from the backbone route to customer locations. It was assumed, on the basis of PEI's experience and that of a local contractor, that on average, four paths to locations would be connected to the backbone route at each utility hole. To account for this sharing factor in the cost calculations, utility hole costs developed for "stand-alone" paths were multiplied by 25% to yield an average utility hole cost per location.

Utility hole summary – the observations outlined above led to a procedure in which average utility hole costs per location for all of locations, by airline distance band, were derived by multiplying the cost of a single hole by two factors. First, the cost of a hole was multiplied by the percentage of locations requiring a new hole, and then by a factor to account for sharing of holes by multiple paths (see Item 12, ESTIMATING PROCEDURE below for other utility hole cost calculations).

Fiber-optic cable - it was assumed that 24-fiber count, single mode fiber-optic cable would be used to connect the locations to the CAP fiber routes. This size provides adequate facilities for the four-fiber connections necessary for automatic alternate routing, plus growth. A local contractor advised that this is a typical size and type used for this purpose. Note that frequently, a larger size may be used for some distance from the backbone route, when several customers are located in adjacent quarters. Because the unit costs (cost per foot per fiber) drops as size increases, actual cable costs per customer are lower than those calculated for the study.

ESTIMATING PROCEDURE:

Structure Costs:

It was noted that algorithms could readily be applied via computer, to the entire population of locations in U S West's data base, which would identify the airline distance from each location to the nearest CAP fiber cable route. PEI elected to develop a cost estimating model related to this airline distance, which could then be readily applied to the entire database via software. Even though actual path lengths vary significantly from the airline distance, by costing a statistically valid number of randomly selected sample locations in

each band, an average path cost by band can be established with sufficient accuracy for overall budget planning.

Throughout the process, the experience of PEI and an experienced local contractor were used to develop estimates and assumptions.

The process used was as follows:

1. U S WEST's geographic databases of hi-cap service locations and CAP fiber-optic cable routes were provided to Power Engineers (PEI). Data included the address, and the number and type of hi-cap services by location, and the running lines of CAP "backbone" fiber routes.
2. PEI distributed the locations into one thousand foot distance bands from the nearest CAP fiber route, e.g. 0 to 1,000 ft; 1,001 to 2,000 ft, etc., using geographic information systems (GIS) software.
3. It was observed that more than half of the locations were within 1,000 ft of a CAP fiber route, and that the population fell rapidly with distance, fewer than 10% being beyond 4,000 ft. This led PEI to assume that CAPs would be unlikely to extend fiber beyond 9,000 feet, since costs increase with distance and there are few such locations.
4. A first approximation was made of path cost variation within each band for the purpose of setting initial sample size. This was based on estimated variations in distance within the band from the location to the nearest access point on the nearest CAP fiber route, and from the expected variation in unit costs for the different types of construction and terrain.
5. The rough estimate of potential cost variation by band was used to determine the number of sample locations to be studied within each band, to achieve a 95% confidence level for the average path cost within the band. The rough estimate was later validated and refined, based on cost variations observed among the sample locations.
6. The appropriate number of sample locations was chosen in each band using a random process.
7. Field visits were made to each location in the sample to obtain site specific data:

Distance along a reasonable path from the property line of the location to the nearest access point on the nearest CAP fiber route (see assumptions, above).

Type of access to backbone route - would a utility hole need to be added?

Distance from the property line to the nearest building wall at the location.

Distance from the building wall to the equipment room was estimated to be half the width of the building.

- Type of structure
- Type of surface conditions for cases involving conduit
- Type of building entrance (aerial or conduit)
8. A site-specific cost estimate was obtained from a qualified local contractor for 50% of the sample locations.
 9. The contractor and PEI personnel then reviewed the site specific estimates and related them to the type of structure (aerial or buried), permitting jurisdictions, and path length sections by surface condition (asphalt, concrete, sod, etc.). Unit cost factors were developed for the various jurisdictions and path conditions. Cost estimates for the remaining samples were then made by applying the unit cost factors to the path data acquired for the remaining locations.
 10. Statistical indicators (average, standard deviation, median, and total variation) were determined for path costs within each band and the initial estimates of sample size by band were validated and revised, as indicated.
 11. The average cost for each band, reduced 40% for common structure usage (a path segment used to connect more than one adjacent locations to the backbone route, see second paragraph under "Assumptions" above), was used as the path structure cost for all locations within the band which were not sampled.
 12. Costs for utility holes which would need to be added to the backbone routes for access were calculated as follows:
 - Cost per hole was estimated at \$8,000
 - Percent of locations by band needing a hole was determined from samples.
 - Utility hole costs per path were then multiplied by 25% to reflect that, on average, four paths share each hole (See ASSUMPTIONS, Utility hole costs, above).

The resulting calculation of an average utility hole cost per location, by band, was:

$$(\text{Cost per hole}) * (\% \text{ of locations in band needing a hole}) * (25\% \text{ sharing factor})$$

Example, for the 0 to 1,000 foot band:

$$\$8,000 * 33.9\% * 25\% = \$678, \text{ average utility hole costs per location in the band.}$$

Cable Costs:

1. An Average cable length for each band was developed from the sample locations. The total distance from the access point on the nearest CAP route to the estimated location of the equipment room at the customer location was computed for each sample location within each band.

2. These average lengths for each band were then multiplied by the unit cost of fiber cable, loaded to account for placing, splicing and other costs.
3. This average cable cost by distance band is the estimating factor for cable costs for all customer locations within each particular band.

The sample locations, grouped by distance band, and the specific path cost estimates for each, are displayed in Chapter VIII, the Appendix, Section B. PATH COSTS. This Section also provides the average path cost for each band. These average path costs by band are applied to all locations, in the attached Cost Model, displayed in the Appendix, Section D., TOTAL COSTS.

IV

ESTIMATING METHODS AND ASSUMPTIONS EQUIPMENT COSTS

TASK:

Develop an economical method of estimating costs for capital budgeting purposes, for the equipment required to provide the indicated service, using fiber-optic cable as the transmission medium.

DESCRIPTION:

This includes the equipment at the customer location required to provide the service, plus the incremental equipment at the CAP hub necessary to interface with the equipment at the customer location.

For each of the service types under consideration, equipment costs for the first circuit typically include "common equipment" which enable a number of similar circuits to be provided quickly, and at little additional cost. For DS-1 service, for example, the cost to provide 24 DS1 circuits over fiber cable is very little more than the cost to provide a single DS1 circuit, because the same amount of common equipment must be installed in either case.

Equations to describe these costs take the approximate form of the equation for a straight line, $y = mx + b$, for a range of circuit volume (groups of twenty-four in the case of DS1 circuits). In the DS1 example,

y = the equipment costs at the location

b = is the cost of the common equipment necessary to support a group of up to 24 DS1 circuits

m = the incremental cost per DS1, and

x = the number of DS1 circuits provided

The factors "m" and "b" change for various ranges of volume of DS1 circuits (similar for other bandwidths), requiring that different formulas be chosen based upon the circuit volume. This is because as circuit volume increases, it becomes economic to utilize higher capacity equipment, with different unit cost characteristics.

Although single DS1 circuits, for example, can be provided without placing the common equipment required to support twenty-four DS1's, this is rarely done because the "break even" point is very low. When growth occurs, per circuit costs on the "one-at-a-time" basis far exceed the costs of planning for groups of twenty-four.

Equipment is also required at the CAP hub to interface with each circuit installed at the customer premises.

PEI developed the formulas to fit each circuit type and volume by obtaining equipment costs from manufacturers and by estimating loadings for installation with the aid of a consultant with expertise in the field.

ASSUMPTIONS:

1. A Central Office or equivalent is in place and contains the higher order DS1 to OC-n equipment for distribution to a customer. The higher order transmission equipment is assumed to be in a "protected ring" configuration
2. The service is delivered to the customers premise via fiber cable. Four fibers will be assigned per system when service levels exceed three DS1's, two primary and two alternate route fibers. Automatic alternative route switching equipment is included, again, when service levels exceed 3 DS1's at a given location. All equipment will be protected against system card failure.
3. The loaded cost in the "hub" or C.O. is defined as the incremental equipment added to an existing system to facilitate the service. EG: Tx/Rx fiber cards, fiber jumpers, jack and frame interconnect, etc.
4. From one to twelve DS1 circuits are delivered via a fibered, Quad DS1 system, which delivers four circuits per Quad DS1 system.
5. When thirteen to 56 DS1's are required, a fibered DS3 multiplexer will be placed. The pricing shall include hub transceivers and customer premises common equipment plus incremental DS1 cards at the customer location up to a maximum of 28 DS1's per DS3 system.
6. When more than 56 DS1's are required, a fibered OC-3 system shall be placed. Pricing shall include hub transceivers and customer premises common equipment, plus incremental DS1 cards at the customer location up to a maximum of 84 DS1's per OC-3 system.
7. When a mix of DS1 and DS3 services are required, an OC3 or higher rate system will be placed. The pricing shall be incremental for each DS1 and DS3.
8. DS3 only: from one to three DS3's - an OC3 system will be placed. Pricing shall include hub transceiver plus customer premises common equipment, plus one DS3 card per circuit, to a maximum of three per system.
9. DS3 only: from four to twelve DS3's - an OC-12 system will be placed. Pricing shall include hub transceiver plus customer premises common equipment, plus one DS3 card per four DS3 circuits, up to a total of twelve DS3's per OC-12 system.
10. DS3 only: more than twelve DS3's - an OC-48 system will be placed. Pricing shall include hub transceiver plus customer premises common equipment, plus one DS3 card per four DS3 circuits, up to a total of 48 DS3's per OC-48 system.
11. When an OC3 or higher bandwidth service is required, a one-to-one configuration will be added. EG: an OC3 driver at the hub and an OC3 Tx/Rx at the customer premise.
12. When a higher order service is required (OC-3, OC-12, etc.), the hub location will always contain a system with enough bandwidth to accommodate the customer via

system cards. EG: an OC-3 requirement will be fed with an OC-12 system, an OC-12 requirement with an OC48 system.

13. The distance from hub to customer is short, less than 10,000 ft. All distribution cable is in place, terminated at distribution panels, and tested for performance at the hub and customer locations.
14. No Wave Division Multiplexer or any other "fiber bandwidth gaining" device shall be used to serve the customer. All fiber drivers shall be LED (Light Emitting Diode), low power, 1310 nm.
15. All pricing is loaded and consists of the following:
 - a. Equipment - customer location - shelf, common cards with protection, cabling, customer electrical interface, fiber jumpers, power and LED drivers. If service requirements exceed three DS1's, high speed interface cards and high speed switching cards are included for automatic route protection switching.
 - b. Equipment - hub location - system cards, fiber jumpers.
 - c. Engineering - both locations. Includes drawings, site survey, records, and assignments.
 - d. Installation - both locations. Includes unpacking, inventory, inspection, mounting, cabling (copper and fiber), cable continuity, system power up, updating records and cleanup of area.
 - e. Test and turn-up - both locations. Includes all system operations, alarms, end to end performance and interconnect to demarcation.
 - f. Maintenance - a factor is added to cover call outs and routine updates.
 - g. Performance Monitoring - a factor is added to support the addition of the service to the Network Operations Center.
 - h. Taxes and transportation are included in the loaded cost.
16. All customer premise equipment is AC powered. Uninterrupted Power Source (UPS) is not included.
17. No particular vendor is specified in this study. All pricing was derived from list prices with an average 15% (fifteen percent) discount, multiplied by a loading factor for installation. This method offers a median installed cost which may vary by 5%, depending on local factors. To narrow the margin, several vendors have been researched.
18. All customer premise equipment will be placed in an environmentally controlled location.
19. All customer premise equipment will be slave timed by the hub, referenced to a stratum one timing source.

ESTIMATING PROCEDURE - EQUIPMENT:

Methods for serving each type, volume and mix of services were examined.

1. Equipment prices, loaded for installation, etc., were developed, referencing a number of vendors.
2. Equipment configurations for each type, combination, and volume of service types were determined.
3. Pricing algorithms were developed for each type, combination and volume of service types.
4. Logic statements were written in a commercially available software, to allow the software to select the proper algorithm for the service required, at each customer location.
5. The algorithms were applied to the data for each location to determine the specific cost for each location.
6. These equipment costs were then added to path costs to estimate the total cost for each customer location.

The resulting equipment cost formulas were applied to all locations, along with logic functions to select the appropriate formula for each combination of service types and volumes. These formulas are described in detail in Chapter VIII, the Appendix, Section C. EQUIPMENT COSTS.

COST MODEL

The cost model is a programmed spreadsheet in a commercially available software (Microsoft Excel®). The procedure used is as follows:

1. All Phoenix Metro hi-cap customer locations in U S WEST's data base were distributed into distance bands from the nearest CAP fiber-optic cable route, as described in Section III above, and entered into the spreadsheet.
2. Path costs were estimated by applying the average path cost for each band, determined as described in Section III, to all locations in the band.
3. Equipment cost algorithms were entered for each type, mix, and volume of services.
4. Logic statements were programmed to drive the software to select the proper equipment cost algorithm to serve each customer location, based on the service requirements at the location. This yielded unique equipment costs by location.
5. Path and equipment costs were summed for each location and then by band.

The resulting costs are summarized in the Executive Summary above.

Costs for all locations are provided and summarized by band in the Appendix, Section D. TOTAL COSTS - FOR ALL LOCATIONS, BY BAND.

BUILD TIME AND BUILD STRATEGIES

DEFINITION: The time required to build facilities and turn up service to a customer location is defined for this purpose as beginning at the time engineering is commenced, until service is turned up. This includes the time required to do the engineering, acquire digging permits and other rights-of-way, build the structure, install and terminate the cable, test the cable; and install, test and turn-up the equipment, and perform any hub or distant end functions which may be required. It is assumed that a suitable, environmentally controlled equipment space is available at the customer location.

The timetables outlined below are in the context of normal conditions. This means normal approval processes and time intervals for permits to use the public rights-of-way and other right-of-way acquisition, for traffic control measures, etc. It also contemplates normal concerns for the economics of construction - a balance between construction speed (the number of crews which can be efficiently managed simultaneously) and construction costs (use of only the best crews, at a rate that can be managed for maximum efficiency). If there were a crisis or emergency condition in which the continuity of data communications were in jeopardy, the time to build could be shortened considerably from the intervals outlined below.

TIME REQUIRED TO BUILD TO A SPECIFIC LOCATION - VARIATIONS:

The time required to build to different sites may vary significantly. Differences in build times are driven primarily by variations in the paths, such as length, digging conditions, etc. However, given a large number of sites to build to, an average time of two weeks per site can be managed economically in the Phoenix area. This is based on the experience of a qualified Phoenix contractor.

Applying more labor and equipment can shorten this time, but unit costs rise because of inefficiencies related to crowded work site conditions and the number of construction crews (simultaneous different construction locations) which can be effectively managed. Many factors that influence build time are beyond the control of the building party. These include governmental intervals for issuance of digging permits, Blue Stakes intervals (location of existing utilities), time required by owners of existing utilities to rearrange or safeguard them, limitations imposed by governments on construction activity in order to maintain public safety and convenience, etc.

The customer locations in the U S WEST database are widespread, but large concentrations of them are located along major business corridors. Given traffic flow and other public safety and convenience factors, it is estimated that a major construction effort could result in reaching those 1,508 locations within 1,000 feet of an existing CAP fiber route, in 18 to 24 months. It is estimated that a total of 24 to 36 months would be required to reach all 3,101 locations included in the study.

It is expected that the first six weeks to two months of a major building program would be absorbed in the initial acquisition of rights-of-way, digging permits, locating activity and traffic control planning. Beyond this period, these activities for the next sets of locations can be pursued in parallel, during the same time that physical construction to the initial sites is underway.

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BUILD STRATEGIES:

Equipment costs are proportional to the volume of services at a location, and therefore are also proportional to revenue potential. Path costs, on the other hand, are a function of distance and surface conditions, almost independent of the volume of services (and thus potential revenue). Net operating income could therefore be optimized by focusing on the largest service volume customer locations with the lowest path costs, generally those nearest to the existing CAP fiber routes. In fact, it is reasonable to assume that the layout of the existing CAP routes was developed to minimize the total distance to the maximum number large service volume customer locations.

A likely CAP build strategy would appear to involve several elements, all aimed at maximizing the number of services provided (revenue) while minimizing the total path distance (cost). Such a strategy could be focused on the following locations:

Locations with high service volumes near the existing CAP routes. (Note that 50% of U S West customer locations are within 1,000 feet of these routes, and if the distance is extended to 2,000 feet, 69% of locations are covered.).

Extend further from existing routes, prioritizing targets based on service volumes, distances and adjacent addresses (opportunity to share path costs with more than one location).

Extend long distances only when service volumes are high and path costs are low (aerial paths for fiber cable, or DS1 service provided via wireless).

VII

ACCESS VIA WIRELESS FACILITIES

Several transmission facility options are open to a CAP seeking to provide service to a customer. These include leasing a circuit from U S West, connecting the customer to the CAP fiber-optic ring via a fiber-optic cable, and connecting the customer to the CAP network (either to a point on or near a fiber ring, or directly to a CAP hub) via microwave radio. The wireless alternative requires a clear line-of-sight between antennas and/or reflectors on the route.

One and two DS1 capacity radio systems are economical (roughly \$20,000 per DS1 for spread-spectrum radio equipment, antennas and installation), and do not require the time-consuming licensing process. Transmission is relatively free from troubles induced by atmospheric disturbances at distances up to 6 miles, making them very attractive for rural and near-rural environments. However, obtaining zoning approval for the 2' to 3' dish antennas and the costs of antenna site leases can be a serious time and cost obstacle. These issues relegate the use of spread spectrum systems to locations at which circuits are not available for lease, or where new construction is required to furnish the service, and construction intervals are long and special charges apply.

Small numbers of DS1 circuits can also be provided by specialized common carriers, which lease 38GHz systems. Installation is typically prompt with a monthly lease cost near \$300 per DS1. Antennas may be as small as an 18" dish mounted inoffensively behind a camouflage screen on the side or roof of a building. However, as in the case of spread spectrum systems, this alternative is usually employed only for locations for which existing circuits are not readily available. The cost of leasing a single DS1 circuit from U S West is about \$350/month, and no zoning approvals, antenna site leases (sometimes required at both ends of the link), nor transmission power costs apply. Furthermore, the 38GHz systems are susceptible to rain fade during heavy thunderstorms. Route lengths are usually limited to about 3 miles (depending on terrain) to minimize atmospherically induced fade.

Digital radio systems are available for service at the OC-3 and greater levels, but their cost characteristics and large antennas (serious zoning issues) suit them more for long-haul transmission than for local use. These systems require FCC licensing on a per-link basis, which may involve significant lead-time.

The state-of-the-art in wireless systems is advancing rapidly. In addition to digital point-to-point radio, multipoint broadband radio systems now being developed (LMDS) promise economical alternative means of hi-cap transmission in the future.

To summarize, while leased circuits for small quantities of DS1's are often the economic choice in urban areas, and fiber cable is favored for its tremendous bandwidth capability; practical wireless alternatives are available, and are becoming increasingly competitive.

VIII

APPENDIX DATA AND DATA SOURCES

I. Development of sampling process and sample sizes:

STATISTICAL METHODS, Snedecor and Cochran, Sixth Edition, The Iowa State University Press, pp. 516-517.

II. Structure Costs, including Building Entry and extension to Equipment Room:

Location Specific Cost Estimates by Frank Chilcoat of ECSI, Communicor, Inc., Phoenix, Arizona, Phoenix Area Construction Contractor

III. Cable Sizes and Types

PEI Experience

Frank Chilcoat of ECSI, Communicor, Inc., Inc., Phoenix, AZ

IV. Cable Costs

PEI Experience

Graybar Electric Co., Inc.

Frank Chilcoat of ECSI, Communicor, Inc., Inc., Phoenix, AZ

Lawrence Young, Former Design Engineer, GST Inc., Phoenix, AZ

V. Installation and Termination Loadings on Cable Costs

PEI Experience

Frank Chilcoat of ECSI, Communicor, Inc., Inc., Phoenix, AZ

Lawrence Young, Former Design Engineer, GST Inc., Phoenix, AZ

VI. Equipment Configurations and Costs

Donald M. Malagisi, R & L Electronics, Lakewood, CO., equipment broker and network design consultant.

VII. Build Time

PEI Experience

Frank Chilcoat, ECSI, Communicor, Inc.

VIII. Wireless Access Reference

PEI Experience

IEEE Proceedings, December, 1997, Volume 12, and pp. 1958-1972, M. Gagnaire: An Overview of Broad-Band Access Technology

VIII

APPENDIX
DATA AND DATA SOURCES

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- A. SOURCES OF DATA AND SAMPLINGS METHODS
- B. PATH COSTS - LOCATION SPECIFIC ESTIMATES FOR SAMPLES IN EACH BAND
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- C. EQUIPMENT COSTS - FORMULAS FOR VARIOUS SERVICE SCENARIOS
EXCEL ® SPREADSHEET "EQPT COST.XLS"
- D. TOTAL COSTS - FOR ALL LOCATIONS, BY BAND
EXCEL ® SPREADSHEET "TOTAL COST.XLS"

APPENDIX
DATA AND DATA SOURCES

B. PATH COSTS - LOCATION SPECIFIC ESTIMATES FOR SAMPLES IN EACH BAND
EXCEL ® SPREADSHEET "PATHCOST.XLS"

Phoenix Fiber Study
Cost Model - Competitive Access Providers
Developed by POWER Engineers, Inc. for US WEST Communications
Sample Locations

DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE									
KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1	PHX	222	5	0	0	0	11,000	233,300	244,300
2	PHX	1	0	0	0	0	11,000	5,468	16,468
3	SCTSDL	2	0	0	0	0	11,000	5,468	16,468
4	TEMPE	1	0	0	0	0	11,000	5,468	16,468
5	PHX	1	0	0	0	0	11,000	5,468	16,468
6	PHX	2	0	0	0	0	11,000	5,468	16,468
7	PHX	1	0	0	0	0	11,000	5,468	16,468
8	PHX	4	0	0	0	0	11,000	8,068	19,068
9	PHX	2	0	0	0	0	11,000	5,468	16,468
10	PHX	1	0	0	0	0	11,000	5,468	16,468
11	PHX	1	0	0	0	0	11,000	5,468	16,468
12	PHX	1	0	0	0	0	11,000	5,468	16,468
13	PHX	4	0	0	0	0	11,000	8,068	19,068
14	CHNDLR	2	0	0	0	0	11,000	5,468	16,468
16	CHNDLR	3	0	0	0	0	11,000	5,468	16,468
17	TEMPE	1	0	0	0	0	11,000	5,468	16,468
18	PHX	14	0	0	0	0	11,000	23,192	34,192
19	PHX	10	0	0	0	0	11,000	24,204	35,204
20	MESA	33	0	0	0	0	11,000	47,089	58,089
21	PHX	1	0	0	0	0	11,000	5,468	16,468
22	TEMPE	1	0	0	0	0	11,000	5,468	16,468
24	TEMPE	1	0	0	0	0	11,000	5,468	16,468
25	PHX	290	8	0	0	0	11,000	287,666	298,666
26	PARA VLY	1	0	0	0	0	11,000	5,468	16,468
27	PHX	3	0	0	0	0	11,000	5,468	16,468
29	SCTSDL	1	0	0	0	0	11,000	5,468	16,468
30	PHX	3	0	0	0	0	11,000	5,468	16,468
31	TEMPE	2	0	0	0	0	11,000	5,468	16,468
33	PHX	3	0	0	0	0	11,000	5,468	16,468
35	PHX	2	0	0	0	0	11,000	5,468	16,468
37	PHX	1	0	0	0	0	11,000	5,468	16,468
39	TEMPE	11	0	0	0	0	11,000	24,204	35,204
40	PHX	3	0	0	0	0	11,000	5,468	16,468
41	PHX	1	0	0	0	0	11,000	5,468	16,468
42	CHNDLR	5	0	0	0	0	11,000	16,136	27,136
43	SCTSDL	1	0	0	0	0	11,000	5,468	16,468
46	PHX	1	0	0	0	0	11,000	5,468	16,468
48	PHX	7	0	0	0	0	11,000	16,136	27,136
49	PHX	11	0	0	0	0	11,000	24,204	35,204
50	PHX	28	1	0	0	0	11,000	49,686	60,686
51	PHX	3	0	0	0	0	11,000	5,468	16,468

**Phoenix Fiber Study
Cost Model - Competitive Access Providers
Developed by POWER Engineers, Inc. for US WEST Communications
Sample Locations**

PATH COST

0 TO 1,000 FT FROM CLEC FIBER ROUTE, ID'S 1-52															
ID	CITY	DS-1	DS-3	PROP	ENTR.	DIST,	DIST,							TOT	
								FIBER TO	BLDG	TO EQP	PATH	STRUC.	STR \$		
ID	CITY	DS-1	DS-3	PROP	ENTR.	ROOM	TYPE	COST	PER FT	TDIST	ID	MH	COST	COST	COST
1	PHX	222	5	200	200	150	ACB	8,000	14.55	550	1	0	8,000	880	8,880
2	PHX	1	0	50	500	150	C	19,000	27.14	700	2	0	19,000	1120	20,120
3	SCTSDL	2	0	300	800	100	BUR	31,000	25.66	1200	3	8,000	39,000	1920	40,920
4	TEMPE	1	0	700	60	90	BUR	22,000	25.66	850	4	8,000	30,000	1360	31,360
5	PHX	1	0	150	15	125	C/B	7,500	25.86	290	5	8,000	15,500	464	15,964
6	PHX	2	0	400	50	150	C	13,800	23.00	600	6	8,000	21,800	960	22,760
7	PHX	1	0	100	100	100	ACD	9,500	31.67	300	7		9,500	480	9,980
8	PHX	4	0	100	500	150	A/C	21,000	28.00	750	8		21,000	1200	22,200
9	PHX	2	0	300	150	80	A/C	12,000	22.64	530	9	8,000	20,000	848	20,848
10	PHX	1	0	500	200	150	C/B	19,500	22.94	850	10		19,500	1360	20,860
11	PHX	1	0	100	100	200	A/C	14,500	36.25	400	11		14,500	640	15,140
12	PHX	1	0	150	50	100	A/C	10,500	35.00	300	12		10,500	480	10,980
13	PHX	4	0	50	10	50	A	8,000	72.73	110	13		8,000	176	8,176
14	CHNDLR	2	0	100	50	150	BUR	10,000	34.11	300	14	8,000	18,000	480	18,480
16	CHNDLR	3	0	600	80	125	BUR	20,500	25.66	805	16	8,000	28,500	1288	29,788
17	TEMPE	1	0	320	0	75	AER	5,500	14.39	395	17		5,500	632	6,132
18	PHX	14	0	150	1350	175	A/C/B	34,500	20.50	1675	18		34,500	2680	37,180
19	PHX	10	0	200	200	200	ACB	25,000	41.67	600	19		25,000	960	25,960
20	MESA	33	0	200	0	150	AER	5,000	14.39	350	20		5,000	560	5,560
21	PHX	1	0	360	50	100	BUR	13,500	26.89	510	21		13,500	816	14,316
22	TEMPE	1	0	600	625	75	BUR	26,500	20.50	1300	22	6,000	34,500	2080	36,580
24	TEMPE	1	0	220	120	25	BUR	12,500	34.11	365	24	8,000	20,500	584	21,084
25	PHX	290	8	600	600	100	A/C/B	29,000	22.31	1300	25		29,000	2080	31,080
26	PARA VLY	1	0	400	600	150	C/G	24,000	20.87	1150	26		24,000	1840	25,840
27	PHX	3	0	200	125	85	A/C/B	8,500	20.73	410	27		8,500	656	9,156
29	SCTSDL	1	0	300	75	100	A/C/G	15,000	31.58	475	29		15,000	760	15,760
30	PHX	3	0	300	300	120	A/C/B	16,500	22.92	720	30		16,500	1152	17,652
31	TEMPE	2	0	350	20	70	BUR	12,000	26.89	440	31	8,000	20,000	704	20,704

PATH COST

33	PHX	3	0	75	50	125	AC	8,000		250	33		8,000	400	8,400
35	PHX	2	0	125	50	100	ACB	9,500	34.55	275	35		9,500	440	9,940
0 TO 1,000 FT FROM CLEC FIBER ROUTE, ID'S 1-52															
ID	CITY	DS-1	DS-3	DIST, FIBER TO	DIST, PROP TO	DIST, BLDG ENT	BLDG	TO EQP	PATH	STRUC.	STR \$	FEET,	PATH	CABLE	TOT OSP COST
ID	CITY	DS-1	DS-3	PROP	ENTR.	ROOM	TYPE	COST	PER FT	IDIST	ID	MH	COST	COST	COST
37	PHX	1	0	800	300	100	ACB	28,500	23.75	1200	37	8,000	36,500	1920	38,420
39	TEMPE	11	0	40	40	80	BUR	11,500	72.00	160	39		11,500	256	11,756
40	PHX	3	0	350	225	125	A	16,000	22.86	700	40		16,000	1120	17,120
41	PHX	1	0	400	0	200	BUR	16,000	26.89	600	41	8,000	24,000	960	24,960
42	CHNDLR	5	0	800	250	100	AER	16,500	14.39	1150	42	8,000	24,500	1840	26,340
43	SCTSDL	1	0	200	130	70	AER	6,000	14.39	400	43		6,000	640	6,640
46	PHX	1	0	300	300	20	C	14,500	23.39	620	46		14,500	992	15,492
48	PHX	7	0	150	50	125	ACB	9,500	29.23	325	48		9,500	520	10,020
49	PHX	11	0	75	150	75	D	8,000	26.67	300	49		8,000	480	8,480
50	PHX	28	1	700	200	190	A/C	17,500	16.06	1090	50	8,000	25,500	1744	27,244
51	PHX	3	0	300	75	125	AER	5,500	11.00	500	51		5,500	800	6,300
52	PHX	3	0	50	250	200	A/C	23,000	46.00	500	52		23,000	800	23,800
57	SCTSDL	2	0	700	0	100	AER	11,500	14.39	800	57		11,500	1280	12,780
60	MESA	1	0	5	60	150	AER	3,000	14.39	215	60		3,000	344	3,344
63	MESA	1	0	200	0	200	AER	6,000	14.39	400	63		6,000	640	6,640
65	TEMPE	2	0	200	70	200	AER	7,000	14.39	470	65	8,000	15,000	752	15,752
66	PHX	1	0	900	300	200	A/G	32,000	22.86	1400	66	8,000	40,000	2240	42,240
68	MESA	1	0	125	45	85	A/C	7,500	29.41	255	68	8,000	15,500	408	15,908
70	PHX	1	0	900	400	75	A/C	32,000	23.27	1375	70		32,000	2200	34,200
71	SCTSDL	1	0	350	500	350	AC	31,000	25.66	1200	71	8,000	39,000	1920	40,920
72	TEMPE	4	0	100	700	200	AER	14,500	14.39	1000	72		14,500	1600	16,100
75	PHX	1	0	300	150	50	A/B	7,500	15.00	500	75	8,000	15,500	800	16,300
76	PHX	2	0	400	200	80	A/C/G	11,000	16.18	680	76	8,000	19,000	1088	20,088
89	P	3	0	350	125	50	AER	8,500	16.19	525	89		8,500	840	9,340
93	PHX	1	0	1000	120	40	AER	16,500	14.39	1160	93		16,500	1856	18,356

PATH COST

94	MESA	2	0	30	240	250	AER	7,500	14.39	520	94		7,500	832	8,332		
100	PHX	3	0	500	129	250	AER	18,000	20.48	879	100		18,000	1406	19,406		
104	PHX	8	9	250	150	200	BORE	35,000	58.33	600	104		35,000	960	35,960		
105	PHX	3	4	800	500	200	A/C/G	33,000	58.33	600	105		33,000	0	33,000		
	# SAMPLES =	59						STRUCT TOT =	925,800			MH TOT =	160,000	1,085,800	61,238	1,147,038	
								STRUCT AVG=	15,692			Avg=	2,712	18,403	1,038	19,441	
	ADJUST FOR COMMON STRUCTURE AND COMMON MANHOLE USE			=	STRUCTURE COST=			MH COST=				MEDIAN			17,652		
								Avg * 60%	\$9,415			Avg * 25%	\$678			STD DEV	10,307
															AVG	19,441	
								TOTAL PATH COST AVG =				SD % OF MEAN			53%		

PATI COST

1,000 TO 2,000 FT FROM CLEC FIBER ROUTE															
ID	CITY					DIST,		DIST,						TOT	
		DIST,	FIBER TO	PROP TO	BLDG	TO EQP	PATH	STRUC.	STR \$	FEET,	ID	MH	PATH	CABLE	OSP
		DS-1	DS-3	PROP	ENTR.	ROOM	TYPE	COST	PER FT	TDIST			CCST	COST	COST
23	PHX	1	0	1200	700	250	AC	35,000	16.28	2150	23		35,000	3440	38,440
28	PHX	6	0	1850	250	150	A/C/B	31,000	13.78	2250	28	8,000	39,000	3600	42,600
32	PHX	5	0	1600	120	180	BUR	33,500	17.68	1900	32	8,000	41,500	3040	44,540
34	PHX	1	0	1800	150	75	AERIAL	23,000	11.36	2025	34		23,000	3240	26,240
36	PHX	2	0	1900	250	80	AERIAL	39,000	17.49	2230	36		39,000	3568	42,568
38	TEMPE	3	0	1500	100	65	BUR	29,500	17.68	1665	38	8,000	37,500	2664	40,164
45	PHX	2	0	1800	200	75	AC	42,000	20.24	2075	45		42,000	3320	45,320
47	PHX	1	0	1400	50	50	AER	19,500	13.00	1500	47	8,000	27,500	2400	29,900
53	SCTS DL	32	1	1800	150	100	BUR	36,000	17.68	2050	53	8,000	44,000	3280	47,280
54	TEMPE	1	0	1600	240	80	BUR	34,000	17.68	1920	54		34,000	3072	37,072
56	PHX	1	0	1200	0	125	AER	19,000	14.49	1325	56		19,000	2120	21,120
59	PHX	1	0	1900	100	150	AER	31,000	14.49	2150	59		31,000	3440	34,440
64	TEMPE	1	0	1900	300	200	BUR	42,500	17.68	2400	64	8,000	50,500	3840	54,340
77	CHNDLR	11	0	2100	500	200	AER	40,500	14.49	2800	77		40,500	4480	44,980
84	TEMPE	17	0	1100	300	100	BUR	26,500	17.68	1500	84	8,000	34,500	2400	36,900
90	PHX	1	0	1100	50	75	A	25,000	20.41	1225	90		25,000	1960	26,960
93	PHX	1	0	1000	120	40	AER	17,000	14.49	1160	93		17,000	1856	18,856
102	PHX	4	6	2000	900	500	A/C/B	49,000	14.41	3400	102		49,000	5440	54,440
103	SUN CITY	4	5	1800	1100	500	BUR	56,000	16.47	3400	103	8,000	64,000	5440	69,440
# SAMPLES =		19						STRUCT TOT =	629,000		MH TOT =	64,000	693,000	62,600	755,600
								STRUCT AVG=	33,105		AVG=	3,368	36,474	3,295	39,768
ADJUST FOR COMMON STRUCTURE AND COMMON MANHOLE USE				STRUCTURE COST= = AVG * 60% \$19,863				MH COST= AVG * 25% \$842			MEDIAN STD DEV 12,001				
				TOTAL PATH COST AVG = \$24,000				SD % OF MEAN AVG 39,768							

PATRIOT

2,000 TO 4,000 FT FROM CLEC FIBER ROUTE															
ID	CITY			DIST,	DIST,									TOT COST	
		DIST,	PROP TO	BLDG	ENTR.	TO EQP	PATH	STRUC.	STR \$	FEET,	ID	PATH	CABLE		
		FIBER TO		BLDG	ROOM	TYPE	COST	PER FT	TDIST	ID	MH	COST	COST		
DS-1	DS-3	PROP	ENTR.												
61	MESA	1	0	2600	150	30	A/BU	51,000	18.28	2780	61	8,000	59,000	4448	63,448
62	PHX	13	0	3500	800	300	A/C/D	99,000	21.50	4600	62		99,000	7360	106,360
67	PHX	1	0	3000	100	80	AER	10,500	3.30	3180	67		10,500	5088	15,588
58	PHX	2	0	3200	50	75		89,600	26.95	3325	58		89,600	5320	94,920
69	MESA	1	0	2500	25	60	AER	47,000	18.28	2585	69		47,000	4136	51,136
73	PHX	4	0	2500	50	150	A/C	34,000	12.59	2700	73		34,000	4320	38,320
77	CHNDLR	11	0	2100	500	200	AER	51,000	18.28	2800	77		51,000	4480	55,480
78	PHX	1	0	3200	300	150	C	88,000	24.11	3650	78		88,000	5840	93,840
79	SCTSDL	1	0	2500	280	50	BUR	67,000	23.65	2830	79	8,000	75,000	4528	79,528
80	PHX	1	0	2900	500	250	A/C	73,000	20.00	3650	80		73,000	5840	78,840
97	PHX	1	0	3500	200	75	AER	42,500	11.26	3775	97		42,500	6040	48,540
15	TEMPE	2	0	3500	120	150	BUR	81,000	21.50	3770	15	8,000	89,000	6032	95,032
81	CHNDLR	1	0	3600	150	125	BUR	71,000	18.28	3875	81		71,000	6200	77,200
86	SCTSDL	2	0	3650	40	25	BUR	88,000	23.65	3715	86	8,000	96,000	5944	101,944
92	CHNDLR	1	0	4000	70	30	AER	75,000	18.28	4100	92		75,000	6560	81,560
15								STRUCT TOT =	967,600		MH TOT =	32,000	999,600	82,136	1,081,736
								STRUCT AVG=	64,507		AVG-=	2,133	66,640	5,476	72,116
ADJUST FOR COMMON STRUCTURE AND COMMON MANHOLE USE				=	STRUCTURE COST=			MH COST=			MEDIAN		78,840		
				=	Avg * 60%	\$38,704		Avg * 25%	\$533		STD DEV		25,140		
				=	TOTAL PATH COST AVG =			\$44,713			AVG		72,116		
				=				SD % OF MEAN					35%		

PATH COST

4,000 FT TO 9,000 FT FROM CLEC FIBER ROUTE																							
ID	CITY	DS-1	DS-3	PROP	ENTR.	FIBER TO	BLDG	DIST,	DIST,	BLDG ENT	TO EQP	PATH	STRUC.	STR \$	FEET,	TDIST	ID	MH	PATH	CABLE	TOT		
								DIST,	PROP TO														
								FIBER TO	BLDG		TO EQP	PATH	STRUC.	STR \$	FEET,	TDIST							
ID	CITY	DS-1	DS-3	PROP	ENTR.	ROOM	TYPE	COST	PER FT	BLDG ENT	TO EQP	PATH	STRUC.	STR \$	FEET,	TDIST	ID	MH	PATH	CABLE	TOT	OSP	
82	PHX	2	0	4500	300	200	A	36,000	7.20	5000	82						36,000	8000	44,000				
83	PHX	56	2	4800	900	200	AER	85,500	14.49	5900	83						85,500	9440	94,940				
85	PEORIA	1	0	4800	350	150	AER	51,000	9.62	5300	85						51,000	8480	59,480				
88	SCTSDL	0	0	5300	100	280	BUR	112,500	20	5680	88	8,000	120,500	9088	129,588								
95	SCTSDL	2	0	5300	240	200	BUR	113,500	20	5740	95	8,000	121,500	9184	130,684								
96	PHX	1	0	8000	700	200	A	85,000	10	8900	96						85,000	14240	99,240				
98	PHX	1	0	7500	200	50	A	30,000	3.87	7750	98						30,000	12400	42,400				
99	PHX	1	0	7500	30	250	AEU	175,000	22.49	7780	99						175,000	12448	187,448				
101	PHX	4	6	4800	200	150	A/C	95,000	18.45	5150	101						95,000	8240	103,240				
# SAMPLES =		9						STRUCT TOT =	783,500		MH TOT =		16,000	799,500	91,520	891,020							
								STRUCT AVG=	87,056		AVG=		1,778	88,833	10,169	99,002							
ADJUST FOR COMMON STRUCTURE AND COMMON MANHOLE USE						STRUCTURE COST=				MH COST=		MEDIAN		99,240									
						= AVG * 60%		\$52,233		AVG * 25%		\$444		STD DEV		44,206							
						TOTAL PATH COST AVG =				\$62,847		SD % OF MEAN		45%									

PATH COST

PATH COSTS SUMMARY BY BAND, PER CUSTOMER LOCATION						
BAND, DISTANCE FROM CAP FIBER ROUTE	COST FOR PATH (STRUCTURE, ACCESS TO CAP FIBER, ACCESS TO BUILDING TO EQUIPMENT ROOM, AND CABLE)					
0 TO 1,000 FT	\$11,000					
1,001 TO 2,000 FT	\$24,000					
2,001 TO 4,000 FT	\$44,500					
4,000 TO 9,000 FT	\$63,000					

**APPENDIX
DATA AND DATA SOURCES**

**C. EQUIPMENT COSTS - FORMULAS FOR VARIOUS SERVICE SCENARIOS
EXCEL ® SPREADSHEET "EQPT COST.XLS"**

**HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION**

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

DS1 SERVICE

FOR 1 TO 3 DS1'S, USE

QUAD SYSTEM WITHOUT AUTOMATIC ROUTE PROTECTION \$5,468
CAPACITY: 4 DS1'S PER SYSTEM
2 FIBERS PER QUAD SYSTEM

EXAMPLE, FOR N DS1'S	N=	1
QUADS	1	<u>\$5,468</u>
EQPT COST PER DS1		\$5,468
FIBERS USED	2	

EXAMPLE, FOR N DS1'S	N=	3
QUADS	1	<u>\$5,468</u>
EQPT COST PER DS1		\$1,823
FIBERS USED	2	

DS1 SERVICE

FOR 4 TO 12 DS1'S, USE

QUAD SYSTEM WITH AUTOMATIC ROUTE PROTECTION
CAPACITY: 4 DS1'S PER SYSTEM
4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS

QUAD SYSTEM	\$5,468
HIGH SPEED INTERFACE CARD/SYSTEM	\$2,000
INTERFACE SWITCH CARD/SYSTEM	\$600

COST = (5468+2600)*ROUNDUP(N/4,0)

EXAMPLE, FOR N DS1'S	N=	5
QUADS	2	<u>\$16,136</u>
EQPT COST PER DS1		\$3,227
FIBERS USED	8	

EXAMPLE, FOR N DS1'S	N=	12
QUADS	3	<u>\$24,204</u>
EQPT COST PER DS1		\$2,017
FIBERS USED	12	

**HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION**

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

FOR 13 TO 56 DS1'S, USE

DS3 SYSTEM WITH AUTOMATIC ROUTE PROTECTION

CAPACITY: 28 DS1'S PER DS3 SYSTEM

4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS

HUB TRANSCEIVERS/SYSTEM	\$3,972
CUST PRM COMMONS/SYSTEM	\$13,400
HIGH SPEED INTERFACE CARD/SYSTEM	\$2,200
HIGH SPEED INTERFACE SWITCH CARD/SYSTEM	\$800
DS-1 CARD/FOUR DS-1'S, MAX=7/SYS	\$705
TOTAL COST FOR N DS1'S =	
ROUNDUP(N/28,0)*(3972+13400+2200+800)+ROUNDUP(N/4)*705	

EXAMPLE, FOR N DS1'S	N=	13
HT'S (NO. OF SYSTEMS)	1	\$3,972
CUST PREM COM	1	\$13,400
H.S. INTERFACE CARDS	1	\$2,200
H.S. INTERFACE SW. CARDS	1	\$800
DS1 CARDS	4	\$2,820
TOTAL FOR 24 DS1'S		\$23,192
EQPT COST PER DS1		\$1,784
FIBERS USED =	4	

EXAMPLE, FOR N DS1'S	N=	56
HT'S (NO. OF SYSTEMS)	2	\$7,944
CUST PREM COM	2	\$26,800
H.S. INTERFACE CARDS	2	\$2,200
H.S. INTERFACE SW. CARDS	2	\$800
DS1 CARDS	14	\$9,870
TOTAL FOR 24 DS1'S		\$50,614
EQPT COST PER DS1		\$904
FIBERS USED	8	

**HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION**

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

DS-1 SERVICE

FOR 57 OR MORE DS1'S USE

OC-3 SYSTEM WITH AUTOMATIC ROUTE PROTECTION

CAPACITY - 84 DS1'S PER SYSTEM

4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS

HUB TRANSCEIVERS	\$6,675
CUST PRM COMMONS	\$31,745
HIGH SPEED INTERFACE CARDS, 1 PER SYSTEM	\$2,400
H. S. INTERFACE SWITCH CARDS, 1 PER SYSTEM	\$1,000
DS-1 CARD PER FOUR DS-1'S, MAX OF 7,21*4=84	\$738
TOTAL COST FOR N DS1'S=	
ROUNDUP(N/84,0)*(6675+31745+2400+1000)+ROUNDUP(N/4,0)*738	

EXAMPLE, FOR N DS1'S	N=	57
HT'S (NO. OF SYSTEMS)	1	\$6,675
CUST PREM COM	1	\$31,745
H.S. INTERFACE CARDS	1	\$2,400
H.S. INTERFACE SW. CARDS	1	\$1,000
DS1 CARDS	15	<u>\$11,070</u>
TOTAL FOR 24 DS1'S		<u>\$52,890</u>
EQPT COST PER DS1		\$928
NUMBER OF FIBERS	4	

EXAMPLE, FOR N DS1'S	N=	85
HT'S (NO. OF SYSTEMS)	2	\$13,350
CUST PREM COM	2	\$63,490
H.S. INTERFACE CARDS	2	\$4,800
H.S. INTERFACE SW. CARDS	2	\$2,000
DS1 CARDS	22	<u>\$16,236</u>
TOTAL FOR 24 DS1'S		<u>\$99,876</u>
EQPT COST PER DS1		\$1,175
NUMBER OF FIBERS	8	

EXAMPLE, FOR N DS1'S	N=	168
HT'S (NO. OF SYSTEMS)	2	\$13,350
CUST PREM COM	2	\$63,490
H.S. INTERFACE CARDS	2	\$4,800
H.S. INTERFACE SW. CARDS	2	\$2,000
DS1 CARDS	42	<u>\$30,996</u>
TOTAL FOR 24 DS1'S		<u>\$114,636</u>
EQPT COST PER DS1		\$682
NUMBER OF FIBERS	8	

**HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION**

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

DS-3 SERVICE

FOR 1 TO 3 DS3'S USE

OC-3 SYSTEM WITH AUTOMATIC ROUTE PROTECTION

CAPACITY: 3 DS3'S PER SYSTEM

4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS

HUB TRANSCEIVERS/SYSTEM	\$6,675
CUSTOMER PREMISE COMMONS/SYSTEM	\$31,745
HIGH SPEED INTERFACE CARDS, 1 PER SYSTEM	\$2,400
H. S. INTERFACE SWITCH CARDS, 1 PER SYSTEM	\$1,000
DS3 CARD/DS3	\$2,700
TOTAL, N DS3'S =	

$$\text{ROUNDUP}(N/3,0)*(6675+31745+2400+1000)+(N*2700)$$

EXAMPLE, FOR N DS-3'S	N=	1
HT'S (NO. OF SYSTEMS)	1	\$6,675
CUST PREM COM	1	\$31,745
H. S. INTERFACE CARDS	1	\$2,400
H. S. INTERFACE SW. CARDS	1	\$1,000
DS-3 CARDS	1	\$2,700
TOTAL FOR N DS-3'S		\$44,520
COST PER DS-3		\$44,520
FIBERS USED	4	

EXAMPLE, FOR N DS-3'S	N=	3
HT'S (NO. OF SYSTEMS)	1	\$6,675
CUST PREM COM	1	\$31,745
H. S. INTERFACE CARDS	1	\$2,400
H. S. INTERFACE SW. CARDS	1	\$1,000
DS-3 CARDS	3	\$8,100
TOTAL FOR N DS-3'S		\$49,920
COST PER DS-3		\$16,640
FIBERS USED	4	

HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

FOR 4 TO 12 DS3'S, USE

OC-12 SYSTEM WITH AUTOMATIC ROUTE PROTECTION

CAPACITY: 12 DS3'S PER SYSTEM

4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS

HUB TRANCEIVERS	1/SYSTEM	\$7,875
CUST PREM COMMONS	1/SYSTEM	\$40,737
HIGH SPEED INTERFACE CARDS, 1 PER SYSTEM		\$2,500
H. S. INTERFACE SWITCH CARDS, 1 PER SYSTEM		\$1,200
DS3 CARD-FOUR DS3 PER CARD		\$7,100
TOTAL, N DS3'S =		

'ROUNDUP(N/12,0)*(7875+40737+2500+1200)+ROUNDUP(N/4,0)*7100

FOR 4 TO 12 DS3'S, CONTINUED

EXAMPLE, FOR N DS3'S	N=	4
HT'S (NO. OF SYSTEMS)=	1	\$7,875
CUST PREM COMMONS	1	\$40,737
H. S. INTERFACE CARDS	1	\$2,500
H. S. INTERFACE SW. CARDS	1	\$1,200
DS3 CARDS	1	<u>\$7,100</u>
TOTAL FOR N DS3'S =		\$55,712
COST PER DS3 =		\$13,928
NUMBER OF FIBERS	4	

EXAMPLE, FOR N DS3'S	N=	12
HT'S (NO. OF SYSTEMS)=	1	\$7,875
CUST PREM COMMONS	1	\$40,737
H. S. INTERFACE CARDS	1	\$2,500
H. S. INTERFACE SW. CARDS	1	\$1,200
DS3 CARDS	3	<u>\$21,300</u>
TOTAL FOR N DS3'S =		\$69,912
COST PER DS3 =		\$5,826
NUMBER OF FIBERS	4	

**HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION**

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

DS-3 SERVICE

FOR 13 OR MORE DS3'S, USE

OC-48 SYSTEM WITH AUTOMATIC ROUTE PROTECTION

CAPACITY: 48 DS3'S PER SYSTEM

4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS

HUB TRANCEIVERS	1/SYSTEM	\$9,724
CUST PREM COMMONS	1/SYSTEM	\$48,747
HIGH SPEED INTERFACE CARDS, 1 PER SYSTEM		\$2,600
H. S. INTERFACE SWITCH CARDS, 1 PER SYSTEM		\$1,400
DS3 CARD, FOUR DS3'S PER CARD		\$7,100
TOTAL, N DS3'S =		
		'ROUNDUP(N/48,0)*(9724+48747+2600+1400)+ROUNDUP(N/4,0)*7100

EXAMPLE, FOR N DS3'S	N=	13
HT'S (NO. OF SYSTEMS)=	1	\$9,724
CUST PREM COMMONS	1	\$48,747
H. S. INTERFACE CARDS	1	\$2,600
H. S. INTERFACE SW. CARDS	1	\$1,400
DS3 CARDS	4	<u>\$28,400</u>
TOTAL FOR N DS3'S =		\$90,871
COST PER DS3 =		\$6,990
NUMBER OF FIBERS	4	

FOR 4 TO 13 OR MORE DS3'S, CONTINUED

EXAMPLE, FOR N DS3'S	N=	48
HT'S (NO. OF SYSTEMS)=	1	\$9,724
CUST PREM COMMONS	1	\$48,747
H. S. INTERFACE CARDS	1	\$2,600
H. S. INTERFACE SW. CARDS	1	\$1,400
DS3 CARDS	12	<u>\$85,200</u>
TOTAL FOR N DS3'S =		\$147,671
COST PER DS3 =		\$3,076
NUMBER OF FIBERS	4	

**HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION**

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

OC-3 SERVICE

**OC-3 SYSTEM WITH AUTOMATIC ROUTE PROTECTION
ONE OC-3 CIRCUIT PER SYSTEM
4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS**

HUB TRANSCEIVER	\$6,675
CUST PREM COMS	\$31,745
HIGH SPEED INTERFACE CARDS, 1 PER SYSTEM	\$2,400
H. S. INTERFACE SWITCH CARDS, 1 PER SYSTEM	\$1,000
TOTAL	\$41,820

EXAMPLE, FOR N OC-3 CIRCUITS	N=	4
HUB TRANSCEIVERS	4	\$26,700
CUST PREM COMS	4	\$126,980
H. S. INTERFACE CARDS	4	\$2,400
H. S. INTERFACE SW. CARDS	4	\$1,000
TOTAL		\$157,080
COST PER OC-3		\$39,270
NUMBER OF FIBER	16	

OC-12 SERVICE

**OC-12 SYSTEM WITH AUTOMATIC ROUTE PROTECTION
ONE OC-12 CIRCUIT PER SYSTEM
4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS**

HUB TRANSCEIVER	\$7,875
CUST PREM COMS	\$40,737
HIGH SPEED INTERFACE CARDS, 1 PER SYSTEM	\$2,500
H. S. INTERFACE SWITCH CARDS, 1 PER SYSTEM	\$1,200
TOTAL	\$52,312

EXAMPLE, FOR N OC-12 CIRCUITS	N=	4
HUB TRANSCEIVERS	4	\$31,500
CUST PREM COMS	4	\$162,948
H. S. INTERFACE CARDS	4	\$10,000
H. S. INTERFACE SW. CARDS	4	\$4,800
TOTAL		\$194,448
COST PER OC-12		\$48,612
NUMBER OF FIBERS	16	

HI-CAP SERVICE EQUIPMENT COSTS
INCLUDING INSTALLATION

ONE CUSTOMER END PLUS INCREMENTAL CO/HUB COSTS

OC-48 SERVICE

OC-48 SYSTEM WITH AUTOMATIC ROUTE PROTECTION

ONE OC-48 CIRCUIT PER SYSTEM

4 FIBERS PER SYSTEM = 2 PRIMARY + 2 PROTECTION FIBERS

HUB TRANCEIVER	\$9,274
CUST PREM COMMONS	\$48,747
HIGH SPEED INTERFACE CARDS, 1 PER SYSTEM	\$2,600
H. S. INTERFACE SWITCH CARDS, 1 PER SYSTEM	\$1,400
TOTAL	\$62,021

EXAMPLE, FOR N OC-48 CIRCUITS	N=	4
HUB TRANSCEIVERS	4	\$37,096
CUST PREM COMS	4	\$194,988
H. S. INTERFACE CARDS	4	\$10,400
H. S. INTERFACE SW. CARDS	4	\$5,600
TOTAL		\$248,084
COST PER OC-3		\$62,021
NUMBER OF FIBERS	16	

APPENDIX
DATA AND DATA SOURCES

D. TOTAL COSTS - FOR ALL LOCATIONS, BY BAND
EXCEL ® SPREADSHEET "TOTAL COST.XLS"

Phoenix Fiber Study
Cost Model - Competitive Access Providers
Developed by POWER Engineers, Inc. for US WEST Communications

DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
2	SCOTTSDALE	3	0	0	0	0	11,000	5,468	16,468
3	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
4	PHOENIX	7	3	0	0	0	11,000	66,056	77,056
5	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
6	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
7	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
8	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
9	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
10	PHOENIX	13	0	0	0	0	11,000	23,192	34,192
11	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
12	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
13	PHOENIX	15	1	0	0	0	11,000	47,472	58,472
14	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
15	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
16	PHOENIX	14	0	0	0	0	11,000	23,192	34,192
17	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
18	PHOENIX	9	0	0	0	0	11,000	24,204	35,204
19	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
20	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
21	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
22	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
23	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
24	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
25	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
26	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
27	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
28	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
29	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
30	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
31	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
32	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
33	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
34	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
35	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
36	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
37	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
38	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
39	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
40	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
41	PHOENIX	2	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
42	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
43	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
44	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
45	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
46	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
47	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
48	GLENDALE	2	0	0	0	0	11,000	5,468	16,468
49	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
50	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
51	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
52	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
53	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
54	SCOTSDAL	12	0	0	0	0	11,000	24,204	35,204
55	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
56	SCOTSSDA	1	0	0	0	0	11,000	5,468	16,468
57	PEORIA	1	0	0	0	0	11,000	5,468	16,468
58	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
59	GLENDALE	2	0	0	0	0	11,000	5,468	16,468
60	SCOTTSDALE	27	1	0	0	0	11,000	49,686	60,686
61	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
62	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
63	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
64	GLENDALE	3	0	0	0	0	11,000	5,468	16,468
65	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
66	SCOTTSDALE	3	0	0	0	0	11,000	5,468	16,468
67	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
68	SCOTTSDALE	3	0	0	0	0	11,000	5,468	16,468
69	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
70	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
71	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
72	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
73	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
74	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
75	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
76	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
77	GLENDALE	2	0	0	0	0	11,000	5,468	16,468
78	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
79	GLENDALE	2	0	0	0	0	11,000	5,468	16,468
80	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
81	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
82	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
83	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
84	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
85	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
86	PHOENIX	13	1	0	0	0	11,000	47,472	58,472
87	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
88	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
89	PEORIA	1	0	0	0	0	11,000	5,468	16,468
90	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
91	PEORIA	2	0	0	0	0	11,000	5,468	16,468
92	SCOTTSDALE	9	0	0	0	0	11,000	24,204	35,204
93	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
94	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
95	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
96	PHOENIX	26	2	0	0	0	11,000	52,386	63,386
97	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
98	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
99	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
100	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
101	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
102	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
103	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
104	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
105	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
106	PEORIA	1	0	0	0	0	11,000	5,468	16,468
107	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
108	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
109	PEORIA	3	0	0	0	0	11,000	5,468	16,468
110	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
111	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
112	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
113	PEORIA	2	0	0	0	0	11,000	5,468	16,468
114	PEORIA	1	0	0	0	0	11,000	5,468	16,468
115	PEORIA	1	0	0	0	0	11,000	5,468	16,468
116	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
117	PHOENIX	19	0	0	0	0	11,000	23,897	34,897
118	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
119	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
120	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
121	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
122	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
123	PHOENIX	3	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
124	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
125	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
126	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
127	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
128	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
129	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
130	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
131	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
132	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
133	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
134	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
135	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
136	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
137	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
138	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
139	GLENDALE	2	0	0	0	0	11,000	5,468	16,468
140	GLENDALE	5	0	0	0	0	11,000	16,136	27,136
141	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
142	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
143	GLENDALE	3	0	0	0	0	11,000	5,468	16,468
144	PEORIA	1	0	0	0	0	11,000	5,468	16,468
145	PEORIA	1	0	0	0	0	11,000	5,468	16,468
146	PEORIA	1	0	0	0	0	11,000	5,468	16,468
147	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
148	PHOENIX	16	10	0	0	0	11,000	76,564	87,564
149	PHOENIX	34	3	0	0	0	11,000	97,009	108,009
150	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
151	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
152	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
153	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
154	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
155	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
156	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
157	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
158	PHOENIX	21	0	0	0	0	11,000	24,602	35,602
159	PHOENIX	16	0	0	0	0	11,000	23,192	34,192
160	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
161	PEORIA	1	0	0	0	0	11,000	5,468	16,468
162	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
163	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
164	PHOENIX	3	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
165	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
166	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
167	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
168	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
169	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
170	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
171	PHOENIX	18	0	0	0	0	11,000	23,897	34,897
172	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
173	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
174	SCOTTSDALE	14	0	0	0	0	11,000	23,192	34,192
175	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068
176	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068
177	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
178	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
179	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068
180	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
181	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
182	PARADISE VALLEY	1	0	0	0	0	11,000	5,468	16,468
183	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
184	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
185	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
186	PHOENIX	9	0	0	0	0	11,000	24,204	35,204
187	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
188	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
189	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
190	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
191	SCOTTSDALE	12	0	0	0	0	11,000	24,204	35,204
192	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
193	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
194	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
195	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
196	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
197	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
198	PARADISE VALLE	1	0	0	0	0	11,000	5,468	16,468
199	GLENDALE	3	0	0	0	0	11,000	5,468	16,468
200	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
201	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
202	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
203	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
204	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
205	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
206	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
207	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
208	GLENDALE	3	0	0	0	0	11,000	5,468	16,468
209	GLENDALE	4	0	0	0	0	11,000	8,068	19,068
210	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
211	SCOTTSDALE	12	0	0	0	0	11,000	24,204	35,204
212	GLENDALE	6	0	0	0	0	11,000	16,136	27,136
213	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
214	GLENDALE	5	0	0	0	0	11,000	16,136	27,136
215	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
216	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
217	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
218	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068
219	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
220	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
221	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
222	PHOENIX	14	0	0	0	0	11,000	23,192	34,192
223	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
224	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068
225	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
226	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
227	PARADISE VALLEY	3	0	0	0	0	11,000	5,468	16,468
228	PARADISE VALLEY	2	0	0	0	0	11,000	5,468	16,468
229	PARADISE VALLEY	6	0	0	0	0	11,000	16,136	27,136
230	PARADISE VALLEY	8	0	0	0	0	11,000	16,136	27,136
231	SCOTTSDALE	10	0	0	0	0	11,000	24,204	35,204
232	SCOTTSDALE	3	0	0	0	0	11,000	5,468	16,468
233	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
234	PARADISE VALLEY	1	0	0	0	0	11,000	5,468	16,468
235	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
236	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
237	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
238	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
239	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
240	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
241	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
242	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
243	PHOENIX	2	1	0	0	0	11,000	45,258	56,258
244	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
245	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
246	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
247	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
248	PARADISE VALLEY	2	0	0	0	0	11,000	5,468	16,468
249	GLENDALE	1	0	0	0	0	11,000	5,468	16,468
250	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
251	PARADISE VALLEY	1	0	0	0	0	11,000	5,468	16,468
252	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
253	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
254	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
255	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
256	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068
257	GLENDALE	2	0	0	0	0	11,000	5,468	16,468
258	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
259	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
260	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
261	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
262	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
263	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
264	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
265	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
266	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
267	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
268	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
269	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
270	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
271	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
272	PHOENIX	7	2	0	0	0	11,000	48,696	59,696
273	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
274	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
275	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
276	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
277	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
278	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
279	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
280	PHOENIX	9	0	0	0	0	11,000	24,204	35,204
281	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
282	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
283	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
284	PHOENIX	13	0	0	0	0	11,000	23,192	34,192
285	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
286	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
287	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
288 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
289 PHOENIX		2	3	0	0	0	11,000	55,388	66,388
290 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
291 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
292 PHOENIX		11	0	0	0	0	11,000	24,204	35,204
293 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
294 PHOENIX		5	0	0	0	0	11,000	16,136	27,136
295 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
296 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
297 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
298 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
299 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
300 PHOENIX		7	0	0	0	0	11,000	16,136	27,136
301 PHOENIX		25	0	0	0	0	11,000	25,307	36,307
302 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
303 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
304 PHOENIX		11	0	0	0	0	11,000	24,204	35,204
305 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
306 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
307 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
308 PHOENIX		23	0	0	0	0	11,000	24,602	35,602
309 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
310 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
311 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
312 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
313 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
314 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
315 PHOENIX		28	0	0	0	0	11,000	25,307	36,307
316 PHOENIX		13	0	0	0	0	11,000	23,192	34,192
317 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
318 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
319 PHOENIX		17	0	0	0	0	11,000	23,897	34,897
320 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
321 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
322 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
323 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
324 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
325 PHOENIX		11	3	0	0	0	11,000	74,124	85,124
326 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
327 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
328 PHOENIX		1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
329	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
330	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
331	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
332	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
333	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
334	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
335	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
336	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
337	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
338	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
339	PHOENIX	2	1	0	0	0	11,000	45,258	56,258
340	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
341	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
342	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
343	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
344	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
345	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
346	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
347	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
348	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
349	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
350	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
351	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
352	PHOENIX	10	0	0	0	0	11,000	24,204	35,204
353	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
354	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
355	PHOENIX	42	5	0	0	0	11,000	94,870	105,870
356	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
357	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
358	PHOENIX	13	0	0	0	0	11,000	23,192	34,192
359	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
360	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
361	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
362	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
363	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
364	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
365	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
366	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
367	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
368	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
369	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
370	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
371	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
372	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
373	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
374	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
375	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
376	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
377	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
378	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
379	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
380	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
381	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
382	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
383	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
384	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
385	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
386	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
387	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
388	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
389	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
390	PHOENIX	165	5	0	0	0	11,000	181,148	192,148
391	PHOENIX	0	11	0	0	0	11,000	73,612	84,612
392	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
393	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
394	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
395	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
396	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
397	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
398	PHOENIX	808	65	0	0	0	11,000	812,918	823,918
399	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
400	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
401	PHOENIX	101	29	0	0	0	11,000	180,279	191,279
402	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
403	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
404	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
405	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
406	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
407	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
408	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
409	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
410	PHOENIX	2	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
411	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
412	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
413	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
414	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
415	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
416	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
417	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
418	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
419	PHOENIX	35	1	0	0	0	11,000	51,162	62,162
420	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
421	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
422	PHOENIX	418	25	0	0	0	11,000	398,761	409,761
423	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
424	PHOENIX	134	0	0	0	0	11,000	108,732	119,732
425	PHOENIX	48	29	0	0	0	11,000	148,334	159,334
426	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
427	PHOENIX	0	0	0	0	3	11,000	186,063	197,063
428	PHOENIX	13	2	0	0	0	11,000	50,172	61,172
429	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
430	PHOENIX	7	3	0	0	0	11,000	66,056	77,056
431	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
432	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
433	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
434	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
435	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
436	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
437	PHOENIX	18	0	0	0	0	11,000	23,897	34,897
438	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
439	PHOENIX	21	0	0	0	0	11,000	24,602	35,602
440	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
441	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
442	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
443	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
444	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
445	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
446	PHOENIX	23	0	0	0	0	11,000	24,602	35,602
447	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
448	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
449	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
450	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
451	PHOENIX	21	0	0	0	0	11,000	24,602	35,602

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
452	PHOENIX	23	4	0	0	0	11,000	63,840	74,840
453	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
454	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
455	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
456	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
457	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
458	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
459	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
460	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
461	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
462	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
463	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
464	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
465	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
466	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
467	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
468	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
469	PHOENIX	22	0	0	0	0	11,000	24,602	35,602
470	SCOTTSDALE	4	1	0	0	0	11,000	45,258	56,258
471	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
472	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
473	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
474	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
475	PHOENIX	23	0	0	0	0	11,000	24,602	35,602
476	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
477	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
478	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
479	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
480	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
481	PHOENIX	23	0	0	0	0	11,000	24,602	35,602
482	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
483	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
484	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
485	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
486	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
487	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
488	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
489	SCOTTSDALE	5	0	0	0	0	11,000	16,136	27,136
490	SCOTTSDALE	7	0	0	0	0	11,000	16,136	27,136
491	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
492	PHOENIX	4	0	0	0	0	11,000	8,068	19,068

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
493	PHOENIX	500	0	0	0	0	11,000	343,170	354,170
494	PHOENIX	16	1	0	0	0	11,000	47,472	58,472
495	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
496	PHOENIX	0	0	0	0	1	11,000	62,021	73,021
497	PHOENIX	94	74	0	0	0	11,000	319,374	330,374
498	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
499	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
500	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
501	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
502	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
503	PHOENIX	262	18	0	0	0	11,000	313,959	324,959
504	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
505	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
506	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
507	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
508	PHOENIX	6	5	0	0	0	11,000	67,988	78,988
509	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
510	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
511	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
512	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
513	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
514	PHOENIX	11	0	0	0	0	11,000	24,204	35,204
515	PHOENIX	31	0	0	0	0	11,000	46,384	57,384
516	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
517	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
518	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
519	PHOENIX	9	1	0	0	0	11,000	46,734	57,734
520	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
521	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
522	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
523	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
524	PHOENIX	9	0	0	0	0	11,000	24,204	35,204
525	PHOENIX	11	0	0	0	0	11,000	24,204	35,204
526	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
527	PHOENIX	14	0	0	0	0	11,000	23,192	34,192
528	SCOTTSDALE	3	0	0	0	0	11,000	5,468	16,468
529	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
530	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
531	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
532	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
533	PHOENIX	3	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
534 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
535 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
536 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
537 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
538 PHOENIX		7	0	0	0	0	11,000	16,136	27,136
539 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
540 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
541 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
542 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
543 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
544 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
545 PHOENIX		31	0	0	0	0	11,000	46,384	57,384
546 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
547 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
548 PHOENIX		9	0	0	0	0	11,000	24,204	35,204
549 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
550 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
551 PHOENIX		37	0	0	0	0	11,000	47,794	58,794
552 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
553 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
554 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
555 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
556 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
557 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
558 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
559 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
560 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
561 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
562 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
563 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
564 PHOENIX		9	1	0	0	0	11,000	46,734	57,734
565 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
566 PHOENIX		8	1	0	0	0	11,000	45,996	56,996
567 PHOENIX		34	0	0	0	0	11,000	47,089	58,089
568 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
569 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
570 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
571 PHOENIX		5	0	0	0	0	11,000	16,136	27,136
572 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
573 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
574 PHOENIX		3	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
575	PHOENIX	14	1	0	0	0	11,000	47,472	58,472
576	PHOENIX	13	0	0	0	0	11,000	23,192	34,192
577	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
578	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
579	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
580	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
581	SCOTTSDALE	4	0	0	0	0	11,000	8,068	19,068
582	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
583	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
584	PHOENIX	16	0	0	0	0	11,000	23,192	34,192
585	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
586	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
587	PHOENIX	13	0	0	0	0	11,000	23,192	34,192
588	PHOENIX	26	0	0	0	0	11,000	25,307	36,307
589	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
590	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
591	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
592	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
593	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
594	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
595	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
596	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
597	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
598	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
599	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
600	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
601	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
602	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
603	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
604	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
605	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
606	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
607	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
608	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
609	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
610	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
611	PHNX	1	0	0	0	0	11,000	5,468	16,468
612	PHOENIX	151	7	0	0	0	11,000	178,196	189,196
613	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
614	PHOENIX	229	0	0	0	0	11,000	168,264	179,264
615	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
616	PHOENIX	57	17	0	0	0	11,000	149,521	160,521
617	PHOENIX	1	1	0	0	0	11,000	45,258	56,258
618	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
619	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
620	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
621	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
622	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
623	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
624	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
625	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
626	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
627	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
628	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
629	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
630	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
631	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
632	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
633	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
634	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
635	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
636	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
637	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
638	SCOTTSDALE	6	0	0	0	0	11,000	16,136	27,136
639	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
640	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
641	PHOENIX	11	0	0	0	0	11,000	24,204	35,204
642	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
643	PHOENIX	10	0	0	0	0	11,000	24,204	35,204
644	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
645	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
646	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
647	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
648	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
649	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
650	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
651	PHOENIX	48	1	0	0	0	11,000	53,376	64,376
652	PHOENIX	0	0	1	0	0	11,000	41,820	52,820
653	PHOENIX	67	11	0	0	0	11,000	126,572	137,572
654	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
655	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
656	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
Cost Model - Competitive Access Providers
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
657	TEMPE	2	0	0	0	0	11,000	5,468	16,468
658	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
659	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
660	MESA	1	0	0	0	0	11,000	5,468	16,468
661	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
662	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
663	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
664	SCOTTSDALE	2	0	0	0	0	11,000	5,468	16,468
665	SCOTTSDALE	39	0	0	0	0	11,000	47,794	58,794
666	SCOTTSDALE	3	0	0	0	0	11,000	5,468	16,468
667	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
668	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
669	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
670	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
671	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
672	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
673	SCOTTSDALE	3	0	0	0	0	11,000	5,468	16,468
674	TOLLESON	2	0	0	0	0	11,000	5,468	16,468
675	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
676	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
677	PHOENIX	9	0	0	0	0	11,000	24,204	35,204
678	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
679	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
680	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
681	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
682	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
683	MESA	2	0	0	0	0	11,000	5,468	16,468
684	MESA	14	0	0	0	0	11,000	23,192	34,192
685	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
686	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
687	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
688	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
689	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
690	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
691	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
692	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
693	AVONDALE	3	0	0	0	0	11,000	5,468	16,468
694	PHOENIX	36	0	0	0	0	11,000	47,089	58,089
695	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
696	PHOENIX	0	0	2	0	0	11,000	83,640	94,640
697	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
698	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
699	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
700	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
701	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
702	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
703	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
704	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
705	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
706	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
707	CHANDLER	4	0	0	0	0	11,000	8,068	19,068
708	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
709	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
710	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
711	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
712	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
713	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
714	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
715	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
716	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
717	PHOENIX	10	0	0	0	0	11,000	24,204	35,204
718	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
719	SCOTTSDALE	1	0	0	0	0	11,000	5,468	16,468
720	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
721	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
722	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
723	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
724	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
725	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
726	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
727	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
728	SCOTTSDALE	5	0	0	0	0	11,000	16,136	27,136
729	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
730	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
731	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
732	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
733	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
734	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
735	PHOENIX	245	27	0	0	0	11,000	283,387	294,387
736	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
737	PHOENIX	8	4	0	0	0	11,000	60,888	71,888
738	PHOENIX	12	1	0	0	0	11,000	46,734	57,734

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
739 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
740 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
741 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
742 PHNX		1	0	0	0	0	11,000	5,468	16,468
743 PHNX		6	0	0	0	0	11,000	16,136	27,136
744 PHOENIX		10	0	0	0	0	11,000	24,204	35,204
745 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
746 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
747 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
748 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
749 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
750 PHOENIX		10	0	0	0	0	11,000	24,204	35,204
751 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
752 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
753 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
754 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
755 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
756 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
757 PHNX		22	0	0	0	0	11,000	24,602	35,602
758 PHOENIX		10	0	0	0	0	11,000	24,204	35,204
759 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
760 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
761 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
762 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
763 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
764 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
765 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
766 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
767 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
768 PHOENIX		9	0	0	0	0	11,000	24,204	35,204
769 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
770 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
771 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
772 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
773 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
774 AVONDALE		1	0	0	0	0	11,000	5,468	16,468
775 PHOENIX		14	0	0	0	0	11,000	23,192	34,192
776 PHOENIX		13	0	0	0	0	11,000	23,192	34,192
777 PHOENIX		7	2	0	0	0	11,000	48,696	59,696
778 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
779 PHOENIX		1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
780 PHOENIX		5	0	0	0	0	11,000	16,136	27,136
781 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
782 PHOENIX		9	0	0	0	0	11,000	24,204	35,204
783 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
784 PHOENIX		27	0	0	0	0	11,000	25,307	36,307
785 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
786 PHOENIX		9	0	0	0	0	11,000	24,204	35,204
787 PHOENIX		20	1	0	0	0	11,000	48,210	59,210
788 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
789 PHOENIX		13	0	0	0	0	11,000	23,192	34,192
790 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
791 PHOENIX		14	0	0	0	0	11,000	23,192	34,192
792 PHOENIX		10	0	0	0	0	11,000	24,204	35,204
793 PHOENIX		5	0	0	0	0	11,000	16,136	27,136
794 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
795 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
796 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
797 PHOENIX		0	0	0	14	0	11,000	732,368	743,368
798 PHOENIX		2621	0	0	0	0	11,000	1,822,368	1,833,368
799 PHOENIX		0	0	12	0	0	11,000	501,840	512,840
800 PHOENIX		332	0	0	0	0	11,000	228,534	239,534
801 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
802 ST PHOENIX AZ		7	4	0	0	0	11,000	60,888	71,888
803 PHOENIX		0	0	0	0	6	11,000	372,126	383,126
804 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
805 PHOENIX		2	1	0	0	0	11,000	45,258	56,258
806 PHOENIX		352	43	0	0	0	11,000	372,795	383,795
807 PHOENIX		4	0	0	0	0	11,000	8,068	19,068
808 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
809 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
810 PHOENIX		10	2	0	0	0	11,000	49,434	60,434
811 PHOENIX		561	218	0	0	0	11,000	1,099,653	1,110,653
812 ST PHOENIX AZ		2	0	0	0	0	11,000	5,468	16,468
813 PHOENIX		26	0	0	0	0	11,000	25,307	36,307
814 PHOENIX		48	0	0	0	0	11,000	49,204	60,204
815 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
816 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
817 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
818 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
819 PHOENIX		3	0	0	0	0	11,000	5,468	16,468
820 PHOENIX		1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
821	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
822	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
823	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
824	PHOENIX	9	0	0	0	0	11,000	24,204	35,204
825	PHOENIX	7	0	0	0	0	11,000	16,136	27,136
826	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
827	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
828	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
829	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
830	PHOENIX	13	1	0	0	0	11,000	47,472	58,472
831	PHOENIX	66	8	0	0	0	11,000	119,472	130,472
832	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
833	TOLLESON	2	0	0	0	0	11,000	5,468	16,468
834	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
835	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
836	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
837	PHOENIX	35	0	0	0	0	11,000	47,089	58,089
838	PHOENIX	14	0	0	0	0	11,000	23,192	34,192
839	PHOENIX	10	0	0	0	0	11,000	24,204	35,204
840	PHOENIX	20	0	0	0	0	11,000	23,897	34,897
841	PHOENIX	12	1	0	0	0	11,000	46,734	57,734
842	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
843	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
844	TEMPE	0	1	0	0	0	11,000	44,520	55,520
845	TEMPE	1	0	0	0	0	11,000	5,468	16,468
846	TEMPE	45	1	0	0	0	11,000	53,376	64,376
847	TEMPE	1	0	0	0	0	11,000	5,468	16,468
848	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
849	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
850	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
851	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
852	TEMPE	27	0	0	0	0	11,000	25,307	36,307
853	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
854	PHOENIX	2	2	0	0	0	11,000	47,958	58,958
855	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
856	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
857	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
858		0	0	1	0	0	11,000	41,820	52,820
859	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
860	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
861	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
862	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
863	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
864	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
865	PHOENIX	51	4	0	0	0	11,000	69,006	80,006
866	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
867	PHOENIX	55	0	0	0	0	11,000	50,614	61,614
868	PHOENIX	5	1	0	0	0	11,000	45,996	56,996
869	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
870	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
871	PHOENIX	16	0	0	0	0	11,000	23,192	34,192
872	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
873	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
874	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
875	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
876	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
877	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
878	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
879	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
880	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
881	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
882	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
883	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
884	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
885	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
886	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
887	PHOENIX	29	2	0	0	0	11,000	73,463	84,463
888	PHOENIX	591	0	0	0	0	11,000	443,784	454,784
889	PHOENIX	197	42	0	0	0	11,000	302,931	313,931
890	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
891	PHNX	3	0	0	0	0	11,000	5,468	16,468
892	PHOENIX	98	1	0	0	0	11,000	103,351	114,351
893	PHNX	5	0	0	0	0	11,000	16,136	27,136
894	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
895	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
896	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
897	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
898	PHOENIX	42	4	0	0	0	11,000	67,530	78,530
899	PHOENIX	30	3	0	0	0	11,000	96,304	107,304
900	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
901	PHOENIX	0	0	0	0	1	11,000	62,021	73,021
902	PHOENIX	999	74	0	0	0	11,000	946,182	957,182

Phoenix Fiber Study
Cost Model - Competitive Access Providers
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
903	PHOENIX	21	0	0	0	0	11,000	24,602	35,602
904	PHOENIX	6	7	0	0	0	11,000	67,988	78,988
905	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
906	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
907	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
908	PHOENIX	0	3	0	0	0	11,000	49,920	60,920
909	PHOENIX	1	1	0	0	0	11,000	45,258	56,258
910	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
911	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
912	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
913	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
914	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
915	FLORENCE	2	0	0	0	0	11,000	5,468	16,468
916	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
917	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
918	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
919	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
920	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
921	PHOENIX	17	0	0	0	0	11,000	23,897	34,897
922	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
923	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
924	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
925	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
926	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
927	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
928	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
929	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
930	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
931	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
932	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
933	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
934	TEMPE	1	0	0	0	0	11,000	5,468	16,468
935	TEMPE	32	0	0	0	0	11,000	46,384	57,384
936	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
937	TEMPE	2	0	0	0	0	11,000	5,468	16,468
938	TEMPE	18	0	0	0	0	11,000	23,897	34,897
939	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
940	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
941	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
942	TEMPE	1	0	0	0	0	11,000	5,468	16,468
943	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
944 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
945 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
946 TEMPE		3	0	0	0	0	11,000	5,468	16,468
947 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
948 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
949 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
950 TEMPE		0	1	0	0	0	11,000	44,520	55,520
951 TEMPE		7	2	0	0	0	11,000	48,696	59,696
952 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
953 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
954 PHOENIX		6	0	0	0	0	11,000	16,136	27,136
955 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
956 TEMPE		1	0	0	0	0	11,000	5,468	16,468
957 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
958 TEMPE		1	0	0	0	0	11,000	5,468	16,468
959 TEMPE		10	0	0	0	0	11,000	24,204	35,204
960 MESA		3	0	0	0	0	11,000	5,468	16,468
961 TEMPE		6	0	0	0	0	11,000	16,136	27,136
962 TEMPE		1	0	0	0	0	11,000	5,468	16,468
963 TEMPE		1	0	0	0	0	11,000	5,468	16,468
964 TEMPE		7	0	0	0	0	11,000	16,136	27,136
965 TEMPE		1	0	0	0	0	11,000	5,468	16,468
966 TEMPE		134	6	0	0	0	11,000	175,244	186,244
967 TEMPE		5	0	0	0	0	11,000	16,136	27,136
968 TEMPE		1	0	0	0	0	11,000	5,468	16,468
969 TEMPE		19	1	0	0	0	11,000	48,210	59,210
970 TEMPE		2	0	0	0	0	11,000	5,468	16,468
971 TEMPE		2	0	0	0	0	11,000	5,468	16,468
972 TEMPE		1	0	0	0	0	11,000	5,468	16,468
973 PHOENIX		1	0	0	0	0	11,000	5,468	16,468
974 TEMPE		0	2	0	0	0	11,000	47,220	58,220
975 TEMPE		2	0	0	0	0	11,000	5,468	16,468
976 TEMPE		3	0	0	0	0	11,000	5,468	16,468
977 TEMPE		1	0	0	0	0	11,000	5,468	16,468
978 TEMPE		1	0	0	0	0	11,000	5,468	16,468
979 PHOENIX		2	0	0	0	0	11,000	5,468	16,468
980 TEMPE		2	0	0	0	0	11,000	5,468	16,468
981 TEMPE		5	0	0	0	0	11,000	16,136	27,136
982 TEMPE		10	0	0	0	0	11,000	24,204	35,204
983 TEMPE		1	0	0	0	0	11,000	5,468	16,468
984 PHOENIX		1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
985	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
986	PHOENIX	21	0	0	0	0	11,000	24,602	35,602
987	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
988	TEMPE	1	0	0	0	0	11,000	5,468	16,468
989	MESA	1	0	0	0	0	11,000	5,468	16,468
990	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
991	TEMPE	2	0	0	0	0	11,000	5,468	16,468
992	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
993	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
994	MESA	1	0	0	0	0	11,000	5,468	16,468
995	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
996	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
997	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
998	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
999	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1000	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1001	MESA	4	0	0	0	0	11,000	8,068	19,068
1002	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1003	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1004	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1005	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1006	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1007	PHOENIX	13	0	0	0	0	11,000	23,192	34,192
1008	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1009	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1010	MESA	1	0	0	0	0	11,000	5,468	16,468
1011	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1012	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1013	MESA	1	0	0	0	0	11,000	5,468	16,468
1014	TEMPE	43	2	0	0	0	11,000	75,578	86,578
1015	PHOENIX	10	0	0	0	0	11,000	24,204	35,204
1016	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1017	MESA	6	0	0	0	0	11,000	16,136	27,136
1018	MESA	14	4	0	0	0	11,000	62,364	73,364
1019	MESA	467	36	0	0	0	11,000	463,637	474,637
1020	MESA	0	0	0	3	0	11,000	156,936	167,936
1021	MESA	19	0	0	0	0	11,000	23,897	34,897
1022	MESA	1	0	0	0	0	11,000	5,468	16,468
1023	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1024	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1025	TEMPE	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1026	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1027	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1028	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1029	TEMPE	4	1	0	0	0	11,000	45,258	56,258
1030	TEMPE	8	5	0	0	0	11,000	67,988	78,988
1031	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1032	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1033	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1034	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1035	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1036	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1037	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1038	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1039	CHANDLER	3	0	0	0	0	11,000	5,468	16,468
1040	CHANDLER	4	1	0	0	0	11,000	45,258	56,258
1041	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1042	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1043	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1044	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1045	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1046	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1047	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1048	GILBERT	1	0	0	0	0	11,000	5,468	16,468
1049	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1050	PHOENIX	0	1	0	0	0	11,000	44,520	55,520
1051	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1052	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1053	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1054	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1055	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1056	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1057	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1058	GILBERT	1	0	0	0	0	11,000	5,468	16,468
1059	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1060	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1061	TEMPE	5	0	0	0	0	11,000	16,136	27,136
1062	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1063	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1064	CHANDLER	2	0	0	0	0	11,000	5,468	16,468
1065	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1066	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1067	PHOENIX	21	0	0	0	0	11,000	24,602	35,602
1068	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1069	TEMPE	4	1	0	0	0	11,000	45,258	56,258
1070	PHOENIX	13	0	0	0	0	11,000	23,192	34,192
1071	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1072	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1073	MESA	15	3	0	0	0	11,000	73,112	84,112
1074	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1075	MESA	1	0	0	0	0	11,000	5,468	16,468
1076	MESA	3	0	0	0	0	11,000	5,468	16,468
1077	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1078	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1079	MESA	2	0	0	0	0	11,000	5,468	16,468
1080	MESA	1	0	0	0	0	11,000	5,468	16,468
1081	MESA	4	0	0	0	0	11,000	8,068	19,068
1082	MESA	1	0	0	0	0	11,000	5,468	16,468
1083	MESA	1	0	0	0	0	11,000	5,468	16,468
1084	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1085	MESA	1	0	0	0	0	11,000	5,468	16,468
1086	MESA	1	0	0	0	0	11,000	5,468	16,468
1087	MESA	1	0	0	0	0	11,000	5,468	16,468
1088	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1089	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1090	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1091	PHOENIX	18	0	0	0	0	11,000	23,897	34,897
1092	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1093	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1094	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1095	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1096	PHOENIX	42	1	0	0	0	11,000	52,638	63,638
1097	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1098	TEMPE	13	2	0	0	0	11,000	50,172	61,172
1099	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1100	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1101	TEMPE	32	0	0	0	0	11,000	46,384	57,384
1102	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1103	TEMPE	5	0	0	0	0	11,000	16,136	27,136
1104	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1105	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1106	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1107	MESA	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1108	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1109	GILBERT	20	1	0	0	0	11,000	48,210	59,210
1110	MESA	1	0	0	0	0	11,000	5,468	16,468
1111	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1112	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1113	TEMPE	14	0	0	0	0	11,000	23,192	34,192
1114	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1115	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1116	MESA	1	0	0	0	0	11,000	5,468	16,468
1117	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1118	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1119	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1120	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1121	MESA	2	0	0	0	0	11,000	5,468	16,468
1122	MESA	1	0	0	0	0	11,000	5,468	16,468
1123	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1124	GILBERT	1	0	0	0	0	11,000	5,468	16,468
1125	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1126	MESA	1	0	0	0	0	11,000	5,468	16,468
1127	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1128	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1129	MESA	3	0	0	0	0	11,000	5,468	16,468
1130	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1131	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1132	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1133	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1134	TEMPE	8	0	0	0	0	11,000	16,136	27,136
1135	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1136	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1137	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1138	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1139	PHOENIX	36	1	0	0	0	11,000	51,162	62,162
1140	TEMPE	11	0	0	0	0	11,000	24,204	35,204
1141	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1142	PHOENIX	18	0	0	0	0	11,000	23,897	34,897
1143	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1144	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1145	PHOENIX	1	2	0	0	0	11,000	47,958	58,958
1146	MESA	1	0	0	0	0	11,000	5,468	16,468
1147	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1148	CHANDLER	2	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1149	MESA	1	0	0	0	0	11,000	5,468	16,468
1150	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1151	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1152	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1153	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1154	MESA	1	0	0	0	0	11,000	5,468	16,468
1155	MESA	1	0	0	0	0	11,000	5,468	16,468
1156	MESA	1	0	0	0	0	11,000	5,468	16,468
1157	MESA	1	0	0	0	0	11,000	5,468	16,468
1158	MESA	1	0	0	0	0	11,000	5,468	16,468
1159	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1160	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1161	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1162	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1163	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1164	TEMPE	7	0	0	0	0	11,000	16,136	27,136
1165	MESA	1	0	0	0	0	11,000	5,468	16,468
1166	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1167	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1168	MESA	1	0	0	0	0	11,000	5,468	16,468
1169	MESA	1	0	0	0	0	11,000	5,468	16,468
1170	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1171	TEMPE	5	0	0	0	0	11,000	16,136	27,136
1172	TEMPE	7	0	0	0	0	11,000	16,136	27,136
1173	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1174	MESA	1	0	0	0	0	11,000	5,468	16,468
1175	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1176	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1177	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1178	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1179	MESA	1	0	0	0	0	11,000	5,468	16,468
1180	TEMPE	7	0	0	0	0	11,000	16,136	27,136
1181	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1182	MESA	1	0	0	0	0	11,000	5,468	16,468
1183	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1184	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1185	TEMPE	18	0	0	0	0	11,000	23,897	34,897
1186	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1187	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1188	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1189	TEMPE	1	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
Cost Model - Competitive Access Providers
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1190	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1191	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1192	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1193	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1194	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1195	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1196	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1197	MESA	1	0	0	0	0	11,000	5,468	16,468
1198	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1199	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1200	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1201	TEMPE	9	0	0	0	0	11,000	24,204	35,204
1202	CHANDLER	4	0	0	0	0	11,000	8,068	19,068
1203	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1204	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1205	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1206	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1207	PHOENIX	8	0	0	0	0	11,000	16,136	27,136
1208	PHOENIX	24	0	0	0	0	11,000	24,602	35,602
1209	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1210	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1211	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1212	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1213	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1214	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1215	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1216	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1217	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1218	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1219	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1220	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1221	TEMPE	49	2	0	0	0	11,000	76,988	87,988
1222	TEMPE	8	1	0	0	0	11,000	45,996	56,996
1223	TEMPE	57	5	0	0	0	11,000	118,062	129,062
1224	TEMPE	16	0	0	0	0	11,000	23,192	34,192
1225	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1226	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1227	TEMPE	11	0	0	0	0	11,000	24,204	35,204
1228	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1229	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1230	TEMPE	1	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1231	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1232	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1233	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1234	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1235	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1236	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1237	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1238	CHANDLER	21	0	0	0	0	11,000	24,602	35,602
1239	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1240	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1241	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1242	MESA	1	0	0	0	0	11,000	5,468	16,468
1243	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1244	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1245	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1246	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1247	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1248	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1249	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1250	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1251	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1252	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1253	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1254	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1255	TEMPE	7	0	0	0	0	11,000	16,136	27,136
1256	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1257	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1258	TEMPE	27	0	0	0	0	11,000	25,307	36,307
1259	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1260	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1261	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1262	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1263	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1264	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1265	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1266	TEMPE	12	0	0	0	0	11,000	24,204	35,204
1267	TEMPE	24	1	0	0	0	11,000	48,948	59,948
1268	TEMPE	8	0	0	0	0	11,000	16,136	27,136
1269	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1270	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1271	TEMPE	1	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1272	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1273	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1274	TEMPE	8	0	0	0	0	11,000	16,136	27,136
1275	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1276	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1277	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1278	TEMPE	8	0	0	0	0	11,000	16,136	27,136
1279	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1280	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1281	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1282	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1283	PHOENIX	0	0	0	1	0	11,000	52,312	63,312
1284	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1285	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1286	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1287	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1288	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1289	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1290	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1291	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1292	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1293	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1294	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1295	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1296	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1297	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1298	TEMPE	6	0	0	0	0	11,000	16,136	27,136
1299	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1300	MESA	1	0	0	0	0	11,000	5,468	16,468
1301	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1302	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1303	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1304	TEMPE	24	0	0	0	0	11,000	24,602	35,602
1305	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1306	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1307	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1308	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1309	TEMPE	17	0	0	0	0	11,000	23,897	34,897
1310	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1311	TEMPE	6	0	0	0	0	11,000	16,136	27,136
1312	MESA	2	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1313	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1314	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1315	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1316	TEMPE	5	0	0	0	0	11,000	16,136	27,136
1317	MESA	33	0	0	0	0	11,000	47,089	58,089
1318	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1319	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1320	PHOENIX	11	0	0	0	0	11,000	24,204	35,204
1321	MESA	7	0	0	0	0	11,000	16,136	27,136
1322	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1323	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1324	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1325	PHOENIX	7	1	0	0	0	11,000	45,996	56,996
1326	MESA	1	0	0	0	0	11,000	5,468	16,468
1327	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1328	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1329	MESA	2	0	0	0	0	11,000	5,468	16,468
1330	MESA	1	0	0	0	0	11,000	5,468	16,468
1331	MESA	1	0	0	0	0	11,000	5,468	16,468
1332	MESA	1	0	0	0	0	11,000	5,468	16,468
1333	MESA	5	0	0	0	0	11,000	16,136	27,136
1334	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1335	MESA	1	0	0	0	0	11,000	5,468	16,468
1336	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1337	MESA	1	0	0	0	0	11,000	5,468	16,468
1338	MESA	1	0	0	0	0	11,000	5,468	16,468
1339	MESA	1	0	0	0	0	11,000	5,468	16,468
1340	MESA	1	0	0	0	0	11,000	5,468	16,468
1341	MESA	1	0	0	0	0	11,000	5,468	16,468
1342	MESA	1	0	0	0	0	11,000	5,468	16,468
1343	APACHE JUNCTION	5	0	0	0	0	11,000	16,136	27,136
1344	MESA	3	0	0	0	0	11,000	5,468	16,468
1345	APACHE JUNCTION	1	0	0	0	0	11,000	5,468	16,468
1346	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1347	MESA	1	0	0	0	0	11,000	5,468	16,468
1348	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1349	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1350	CHANDLER	12	0	0	0	0	11,000	24,204	35,204
1351	MESA	3	0	0	0	0	11,000	5,468	16,468
1352	MESA	4	0	0	0	0	11,000	8,068	19,068
1353	PHOENIX	1	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1354	TEMPE	7	0	0	0	0	11,000	16,136	27,136
1355	MESA	2	0	0	0	0	11,000	5,468	16,468
1356	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1357	TEMPE	8	0	0	0	0	11,000	16,136	27,136
1358	MESA	3	0	0	0	0	11,000	5,468	16,468
1359	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1360	MESA	4	0	0	0	0	11,000	8,068	19,068
1361	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1362	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1363	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1364	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1365	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1366	TEMPE	4	0	0	0	0	11,000	8,068	19,068
1367	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1368	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1369	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1370	MESA	1	0	0	0	0	11,000	5,468	16,468
1371	MESA	2	0	0	0	0	11,000	5,468	16,468
1372	MESA	1	0	0	0	0	11,000	5,468	16,468
1373	MESA	1	0	0	0	0	11,000	5,468	16,468
1374	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1375	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1376	MESA	2	0	0	0	0	11,000	5,468	16,468
1377	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1378	MESA	3	0	0	0	0	11,000	5,468	16,468
1379	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1380	MESA	1	0	0	0	0	11,000	5,468	16,468
1381	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1382	TEMPE	10	0	0	0	0	11,000	24,204	35,204
1383	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1384	TEMPE	9	0	0	0	0	11,000	24,204	35,204
1385	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1386	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1387	GILBERT	5	0	0	0	0	11,000	16,136	27,136
1388	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1389	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1390	MESA	4	0	0	0	0	11,000	8,068	19,068
1391	MESA	1	0	0	0	0	11,000	5,468	16,468
1392	MESA	1	0	0	0	0	11,000	5,468	16,468
1393	MESA	8	0	0	0	0	11,000	16,136	27,136
1394	TEMPE	2	0	0	0	0	11,000	5,468	16,468

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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1395	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1396	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1397	GILBERT	1	0	0	0	0	11,000	5,468	16,468
1398	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1399	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1400	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1401	GILBERT	3	0	0	0	0	11,000	5,468	16,468
1402	GILBERT	2	0	0	0	0	11,000	5,468	16,468
1403	GILBERT	1	0	0	0	0	11,000	5,468	16,468
1404	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1405	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1406	PHOENIX	11	0	0	0	0	11,000	24,204	35,204
1407	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1408	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1409	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1410	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1411	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1412	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1413	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1414	TEMPE	18	3	0	0	0	11,000	73,817	84,817
1415	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1416	GILBERT	1	0	0	0	0	11,000	5,468	16,468
1417	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1418	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1419	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1420	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1421	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1422	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1423	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1424	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1425	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1426	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1427	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1428	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1429	PHOENIX	6	0	0	0	0	11,000	16,136	27,136
1430	PHOENIX	2	0	0	0	0	11,000	5,468	16,468
1431	PHOENIX	5	0	0	0	0	11,000	16,136	27,136
1432	PHOENIX	3	0	0	0	0	11,000	5,468	16,468
1433	GILBERT	5	0	0	0	0	11,000	16,136	27,136
1434	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1435	PHOENIX	15	1	0	0	0	11,000	47,472	58,472

Phoenix Fiber Study
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1436	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1437	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1438	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1439	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1440	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1441	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1442	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1443	GILBERT	4	0	0	0	0	11,000	8,068	19,068
1444	GILBERT	2	0	0	0	0	11,000	5,468	16,468
1445	CHANDLER	2	0	0	0	0	11,000	5,468	16,468
1446	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1447	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1448	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1449	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1450	TEMPE	3	0	0	0	0	11,000	5,468	16,468
1451	TEMPE	14	0	0	0	0	11,000	23,192	34,192
1452	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1453	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1454	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1455	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1456	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1457	TEMPE	5	0	0	0	0	11,000	16,136	27,136
1458	PHOENIX	4	0	0	0	0	11,000	8,068	19,068
1459	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1460	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1461	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1462	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1463	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1464	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1465	TEMPE	2	0	0	0	0	11,000	5,468	16,468
1466	TEMPE	1	0	0	0	0	11,000	5,468	16,468
1467	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1468	CHANDLER	3	0	0	0	0	11,000	5,468	16,468
1469	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1470	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1471	CHANDLER	4	0	0	0	0	11,000	8,068	19,068
1472	PHOENIX	1	0	0	0	0	11,000	5,468	16,468
1473	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1474	CHANDLER	2	0	0	0	0	11,000	5,468	16,468
1475	CHANDLER	1	0	0	0	0	11,000	5,468	16,468
1476	CHANDLER	1	0	0	0	0	11,000	5,468	16,468

Phoenix Fiber Study
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DISTANCE BAND 1: 0 TO 1,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST				
1477	CHANDLER	2	0	0	0	0	11,000	5,468	16,468				
1478	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1479	CHANDLER	2	0	0	0	0	11,000	5,468	16,468				
1480	CHANDLER	3	0	0	0	0	11,000	5,468	16,468				
1481	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1482	CHANDLER	2	0	0	0	0	11,000	5,468	16,468				
1483	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1484	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1485	CHANDLER	4	2	0	0	0	11,000	47,958	58,958				
1486		0	0	1	0	0	11,000	41,820	52,820				
1487		0	0	0	1	0	11,000	52,312	63,312				
1488	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1489	CHANDLER	0	1	0	0	0	11,000	44,520	55,520				
1490	CHANDLER	8	0	0	0	0	11,000	16,136	27,136				
1491	CHANDLER	22	2	0	0	0	11,000	51,648	62,648				
1492	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1493	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1494	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1495	CHANDLER	3	0	0	0	0	11,000	5,468	16,468				
1496	PHOENIX	2	0	0	0	0	11,000	5,468	16,468				
1497	PHOENIX	2	0	0	0	0	11,000	5,468	16,468				
1498	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1499	PHOENIX	1	0	0	0	0	11,000	5,468	16,468				
1500	CHANDLER	3	0	0	0	0	11,000	5,468	16,468				
1501	CHANDLER	9	0	0	0	0	11,000	24,204	35,204				
1502	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1503	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1504	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1505	CHANDLER	2	0	0	0	0	11,000	5,468	16,468				
1506	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1507	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
1508	CHANDLER	1	0	0	0	0	11,000	5,468	16,468				
Sub-Totals							\$16,588,000	\$28,043,239					
# in this Study				3101				Sum of Total Cost	\$44,631,239				
# in this Band				1508				Average of Total Cost	\$29,596				
									% of Addresses in this Band				
									48.63%				



Phoenix Fiber Study
Cost Model - Competitive Access Providers
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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
2	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
3	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
4	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
5	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
6	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
7	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
8	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
9	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
10	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
11	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
12	PHOENIX	13	0	0	0	0	24,000	23,192	47,192
13	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
14	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
15	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
16	PHOENIX	1	1	0	0	0	24,000	45,258	69,258
17	PHOENIX	8	0	0	0	0	24,000	16,136	40,136
18	PHOENIX	10	0	0	0	0	24,000	24,204	48,204
19	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
20	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
21	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
22	PHOENIX	6	0	0	0	0	24,000	16,136	40,136
23	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
24	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
25	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
26	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
27	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
28	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
29	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
30	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
31	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
32	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
33	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
34	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
35	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
36	PHOENIX	6	0	0	0	0	24,000	16,136	40,136
37	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
38	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
39	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
40	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
41	GLENDALE	1	0	0	0	0	24,000	5,468	29,468

Phoenix Fiber Study
Cost Model - Competitive Access Providers
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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
42	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
43	SCOTTSDALE	5	0	0	0	0	24,000	16,136	40,136
44	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
45	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
46	SCOTTSDALE	5	0	0	0	0	24,000	16,136	40,136
47	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
48	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
49	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
50	PEORIA	2	0	0	0	0	24,000	5,468	29,468
51	PEORIA	2	0	0	0	0	24,000	5,468	29,468
52	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
53	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
54	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
55	PEORIA	2	0	0	0	0	24,000	5,468	29,468
56	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
57	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
58	PEORIA	1	0	0	0	0	24,000	5,468	29,468
59	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
60	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
61	PEORIA	0	2	0	0	0	24,000	47,220	71,220
62	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
63	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
64	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
65	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
66	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
67	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
68	PHOENIX	11	0	0	0	0	24,000	24,204	48,204
69	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
70	PHOENIX	5	0	0	0	0	24,000	16,136	40,136
71	PHOENIX	5	0	0	0	0	24,000	16,136	40,136
72	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
73	PEORIA	2	0	0	0	0	24,000	5,468	29,468
74	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
75	PEORIA	1	0	0	0	0	24,000	5,468	29,468
76	SCOTTSDALE	6	0	0	0	0	24,000	16,136	40,136
77	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
78	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
79	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
80	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
81	PEORIA	1	0	0	0	0	24,000	5,468	29,468
82	PHOENIX	2	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
83	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
84	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
85	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
86	PHOENIX	10	0	0	0	0	24,000	24,204	48,204
87	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
88	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
89	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
90	SCOTTSDALE	16	0	0	0	0	24,000	23,192	47,192
91	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
92	PHOENIX	6	0	0	0	0	24,000	16,136	40,136
93	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
94	PEORIA	1	0	0	0	0	24,000	5,468	29,468
95	PEORIA	1	0	0	0	0	24,000	5,468	29,468
96	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
97	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
98	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
99	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
100	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
101	PHOENIX	5	5	0	0	0	24,000	67,988	91,988
102	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
103	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
104	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
105	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
106	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
107	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
108	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
109	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
110	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
111	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
112	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
113	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
114	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
115	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
116	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
117	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
118	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
119	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
120	SCOTTSDALE	0	1	0	0	0	24,000	44,520	68,520
121	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
122	SCOTTSDALE	3	1	0	0	0	24,000	45,258	69,258
123	SCOTTSDALE	0	1	0	0	0	24,000	44,520	68,520

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
124	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
125	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
126	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
127	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
128	PHOENIX	23	3	0	0	0	24,000	74,522	98,522
129	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
130	PHOENIX	7	0	0	0	0	24,000	16,136	40,136
131	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
132	PHOENIX	19	0	0	0	0	24,000	23,897	47,897
133	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
134	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
135	PHOENIX	6	0	0	0	0	24,000	16,136	40,136
136	PARADISE VALLEY	8	0	0	0	0	24,000	16,136	40,136
137	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
138	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
139	SCOTTSDA	1	0	0	0	0	24,000	5,468	29,468
140	SCOTTSDALE	16	0	0	0	0	24,000	23,192	47,192
141	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
142	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
143	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
144	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
145	PHOENIX	20	2	0	0	0	24,000	50,910	74,910
146	CHANDLER	1	0	0	0	0	24,000	5,468	29,468
147	PHOENIX	9	0	0	0	0	24,000	24,204	48,204
148	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
149	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
150	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
151	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
152	SCOTTSDALE	4	0	0	0	0	24,000	8,068	32,068
153	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
154	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
155	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
156	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
157	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
158	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
159	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
160	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
161	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
162	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
163	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
164	GLENDALE	1	0	0	0	0	24,000	5,468	29,468

Phoenix Fiber Study
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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
165	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
166	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
167	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
168	GLENDALE	4	0	0	0	0	24,000	8,068	32,068
169	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
170	PARADISE VALLEY	1	0	0	0	0	24,000	5,468	29,468
171	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
172	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
173	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
174	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
175	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
176	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
177	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
178	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
179	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
180	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
181	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
182	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
183	PHOENIX	9	0	0	0	0	24,000	24,204	48,204
184	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
185	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
186	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
187	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
188	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
189	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
190	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
191	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
192	PHOENIX	7	0	0	0	0	24,000	16,136	40,136
193	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
194	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
195	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
196	GLENDALE	1	0	0	0	0	24,000	5,468	29,468
197	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
198	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
199	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
200	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
201	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
202	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
203	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
204	PHOENIX	10	0	0	0	0	24,000	24,204	48,204
205	PHOENIX	4	0	0	0	0	24,000	8,068	32,068

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
206	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
207	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
208	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
209	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
210	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
211	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
212	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
213	PHOENIX	9	0	0	0	0	24,000	24,204	48,204
214	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
215	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
216	SCOTTSDALE	19	1	0	0	0	24,000	48,210	72,210
217	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
218	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
219	SCOTTSDALE	5	0	0	0	0	24,000	16,136	40,136
220	SCOTTSDALE	4	0	0	0	0	24,000	8,068	32,068
221	PHOENIX	7	0	0	0	0	24,000	16,136	40,136
222	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
223	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
224	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
225	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
226	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
227	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
228	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
229	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
230	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
231	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
232	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
233	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
234	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
235	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
236	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
237	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
238	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
239	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
240	PHOENIX	5	0	0	0	0	24,000	16,136	40,136
241	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
242	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
243	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
244	PHOENIX	1	1	0	0	0	24,000	45,258	69,258
245	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
246	PHOENIX	2	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
247	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
248	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
249	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
250	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
251	PHOENIX	12	0	0	0	0	24,000	24,204	48,204
252	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
253	PHOENIX	12	0	0	0	0	24,000	24,204	48,204
254	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
255	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
256	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
257	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
258	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
259	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
260	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
261	SCOTTSDALE	11	0	0	0	0	24,000	24,204	48,204
262	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
263	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
264	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
265	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
266	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
267	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
268	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
269	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
270	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
271	PHOENIX	5	0	0	0	0	24,000	16,136	40,136
272	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
273	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
274	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
275	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
276	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
277	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
278	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
279	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
280	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
281	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
282	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
283	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
284	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
285	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
286	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
287	PHOENIX	2	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
288	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
289	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
290	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
291	MESA	1	0	0	0	0	24,000	5,468	29,468
292	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
293	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
294	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
295	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
296	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
297	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
298	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
299	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
300	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
301	PHOENIX	8	0	0	0	0	24,000	16,136	40,136
302	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
303	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
304	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
305	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
306	SCOTTSDALE	8	0	0	0	0	24,000	16,136	40,136
307	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
308	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
309	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
310	MESA	2	0	0	0	0	24,000	5,468	29,468
311	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
312	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
313	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
314	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
315	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
316	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
317	SCOTTSDALE	3	0	0	0	0	24,000	5,468	29,468
318	TOLLESON	1	0	0	0	0	24,000	5,468	29,468
319	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
320	CHANDLER	2	0	0	0	0	24,000	5,468	29,468
321	SCOTTSDALE	2	0	0	0	0	24,000	5,468	29,468
322	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
323	TOLLESON	6	0	0	0	0	24,000	16,136	40,136
324	TOLLESON	27	1	0	0	0	24,000	49,686	73,686
325	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
326	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
327	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
328	PHOENIX	1	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
329	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
330	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
331	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
332	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
333	MESA	2	0	0	0	0	24,000	5,468	29,468
334	MESA	1	0	0	0	0	24,000	5,468	29,468
335	MESA	5	0	0	0	0	24,000	16,136	40,136
336	SCOTTSDALE	1	0	0	0	0	24,000	5,468	29,468
337	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
338	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
339	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
340	TOLLESON	2	0	0	0	0	24,000	5,468	29,468
341	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
342	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
343	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
344	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
345	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
346		0	0	1	0	0	24,000	41,820	65,820
347	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
348	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
349	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
350	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
351	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
352	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
353	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
354	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
355	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
356	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
357	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
358	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
359	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
360	PHOENIX	10	0	0	0	0	24,000	24,204	48,204
361	PHOENIX	12	0	0	0	0	24,000	24,204	48,204
362	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
363	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
364	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
365	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
366	PHOENIX	5	0	0	0	0	24,000	16,136	40,136
367	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
368	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
369	PHOENIX	1	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
370	PHOENIX	14	0	0	0	0	24,000	23,192	47,192
371	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
372	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
373	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
374	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
375	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
376	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
377	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
378	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
379	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
380	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
381	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
382	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
383	TEMPE	1	0	0	0	0	24,000	5,468	29,468
384	PHOENIX	0	0	0	2	0	24,000	104,624	128,624
385	PHOENIX	50	2	0	0	0	24,000	76,988	100,988
386	AVONDALE	1	0	0	0	0	24,000	5,468	29,468
387	AVONDALE	1	0	0	0	0	24,000	5,468	29,468
388	PHOENIX	4	0	0	0	0	24,000	8,068	32,068
389	TEMPE	1	0	0	0	0	24,000	5,468	29,468
390	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
391	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
392	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
393	TEMPE	2	0	0	0	0	24,000	5,468	29,468
394	TEMPE	1	0	0	0	0	24,000	5,468	29,468
395	TEMPE	2	0	0	0	0	24,000	5,468	29,468
396	TEMPE	1	0	0	0	0	24,000	5,468	29,468
397	TEMPE	3	0	0	0	0	24,000	5,468	29,468
398	TEMPE	1	0	0	0	0	24,000	5,468	29,468
399	TEMPE	2	0	0	0	0	24,000	5,468	29,468
400	CHANDLER	6	0	0	0	0	24,000	16,136	40,136
401	CHANDLER	1	0	0	0	0	24,000	5,468	29,468
402	PHOENIX	19	1	0	0	0	24,000	48,210	72,210
403	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
404	TEMPE	1	0	0	0	0	24,000	5,468	29,468
405	CHANDLER	1	0	0	0	0	24,000	5,468	29,468
406	TEMPE	1	0	0	0	0	24,000	5,468	29,468
407	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
408	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
409	CHANDLER	3	0	0	0	0	24,000	5,468	29,468
410	CHANDLER	2	0	0	0	0	24,000	5,468	29,468

Phoenix Fiber Study
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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
411	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
412	PHOENIX	7	0	0	0	0	24,000	16,136	40,136
413	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
414	TEMPE	1	0	0	0	0	24,000	5,468	29,468
415	TEMPE	1	0	0	0	0	24,000	5,468	29,468
416	GILBERT	1	0	0	0	0	24,000	5,468	29,468
417	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
418	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
419	TEMPE	2	0	0	0	0	24,000	5,468	29,468
420	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
421	TEMPE	1	0	0	0	0	24,000	5,468	29,468
422	PHOENIX	5	0	0	0	0	24,000	16,136	40,136
423	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
424	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
425	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
426	TEMPE	13	0	0	0	0	24,000	23,192	47,192
427	TEMPE	35	0	0	0	0	24,000	47,089	71,089
428	MESA	1	0	0	0	0	24,000	5,468	29,468
429	TEMPE	6	0	0	0	0	24,000	16,136	40,136
430	TEMPE	35	0	0	0	0	24,000	47,089	71,089
431	TEMPE	1	0	0	0	0	24,000	5,468	29,468
432	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
433	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
434	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
435	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
436	MESA	3	0	0	0	0	24,000	5,468	29,468
437	MESA	1	0	0	0	0	24,000	5,468	29,468
438	MESA	1	0	0	0	0	24,000	5,468	29,468
439	TEMPE	2	0	0	0	0	24,000	5,468	29,468
440	TEMPE	2	0	0	0	0	24,000	5,468	29,468
441	MESA	1	0	0	0	0	24,000	5,468	29,468
442	MESA	4	0	0	0	0	24,000	8,068	32,068
443	MESA	1	0	0	0	0	24,000	5,468	29,468
444	TEMPE	61	0	0	0	0	24,000	53,628	77,628
445	TEMPE	24	0	0	0	0	24,000	24,602	48,602
446	TEMPE	0	0	1	0	0	24,000	41,820	65,820
447	TEMPE	2	0	0	0	0	24,000	5,468	29,468
448	TEMPE	3	0	0	0	0	24,000	5,468	29,468
449	TEMPE	1	0	0	0	0	24,000	5,468	29,468
450	MESA	2	0	0	0	0	24,000	5,468	29,468
451	TEMPE	1	0	0	0	0	24,000	5,468	29,468

Phoenix Fiber Study
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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
452	TEMPE	1	0	0	0	0	24,000	5,468	29,468
453	TEMPE	4	0	0	0	0	24,000	8,068	32,068
454	TEMPE	1	0	0	0	0	24,000	5,468	29,468
455	TEMPE	2	0	0	0	0	24,000	5,468	29,468
456	TEMPE	7	0	0	0	0	24,000	16,136	40,136
457	TEMPE	1	0	0	0	0	24,000	5,468	29,468
458	TEMPE	2	0	0	0	0	24,000	5,468	29,468
459	TEMPE	1	0	0	0	0	24,000	5,468	29,468
460	TEMPE	9	0	0	0	0	24,000	24,204	48,204
461	PHOENIX	5	3	0	0	0	24,000	66,056	90,056
462	PHOENIX	13	1	0	0	0	24,000	47,472	71,472
463	PHOENIX	0	1	0	0	0	24,000	44,520	68,520
464	TEMPE	1	0	0	0	0	24,000	5,468	29,468
465	TEMPE	1	0	0	0	0	24,000	5,468	29,468
466	MESA	1	0	0	0	0	24,000	5,468	29,468
467	TEMPE	3	0	0	0	0	24,000	5,468	29,468
468	TEMPE	1	0	0	0	0	24,000	5,468	29,468
469	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
470	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
471	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
472	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
473	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
474	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
475	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
476	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
477	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
478	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
479	TEMPE	1	0	0	0	0	24,000	5,468	29,468
480	TEMPE	1	0	0	0	0	24,000	5,468	29,468
481	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
482	TEMPE	1	0	0	0	0	24,000	5,468	29,468
483	TEMPE	1	0	0	0	0	24,000	5,468	29,468
484	TEMPE	1	0	0	0	0	24,000	5,468	29,468
485	TEMPE	2	0	0	0	0	24,000	5,468	29,468
486	MESA	1	0	0	0	0	24,000	5,468	29,468
487	PHOENIX	18	1	0	0	0	24,000	48,210	72,210
488	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
489	MESA	2	0	0	0	0	24,000	5,468	29,468
490	MESA	7	0	0	0	0	24,000	16,136	40,136
491	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
492	MESA	2	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
493	TEMPE	2	0	0	0	0	24,000	5,468	29,468
494	PHOENIX	6	0	0	0	0	24,000	16,136	40,136
495	PHOENIX	1	1	0	0	0	24,000	45,258	69,258
496	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
497	MESA	3	0	0	0	0	24,000	5,468	29,468
498	MESA	1	0	0	0	0	24,000	5,468	29,468
499	TEMPE	1	0	0	0	0	24,000	5,468	29,468
500	TEMPE	1	0	0	0	0	24,000	5,468	29,468
501	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
502	MEZA	1	0	0	0	0	24,000	5,468	29,468
503	MESA	2	0	0	0	0	24,000	5,468	29,468
504	MESA	3	0	0	0	0	24,000	5,468	29,468
505	MESA	1	0	0	0	0	24,000	5,468	29,468
506	MESA	1	0	0	0	0	24,000	5,468	29,468
507	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
508	MESA	1	0	0	0	0	24,000	5,468	29,468
509	MESA	1	0	0	0	0	24,000	5,468	29,468
510	MESA	1	0	0	0	0	24,000	5,468	29,468
511	MESA	2	0	0	0	0	24,000	5,468	29,468
512	MESA	3	0	0	0	0	24,000	5,468	29,468
513	MESA	1	0	0	0	0	24,000	5,468	29,468
514	MESA	2	0	0	0	0	24,000	5,468	29,468
515	TEMPE	2	0	0	0	0	24,000	5,468	29,468
516	MESA	1	0	0	0	0	24,000	5,468	29,468
517	MESA	2	0	0	0	0	24,000	5,468	29,468
518	PHOENIX	2	0	0	0	0	24,000	5,468	29,468
519	PHOENIX	10	0	0	0	0	24,000	24,204	48,204
520		0	0	1	0	0	24,000	41,820	65,820
521	MESA	2	0	0	0	0	24,000	5,468	29,468
522	GILBERT	1	0	0	0	0	24,000	5,468	29,468
523	GILBERT	2	0	0	0	0	24,000	5,468	29,468
524	GILBERT	4	0	0	0	0	24,000	8,068	32,068
525	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
526	PHOENIX	1	0	0	0	0	24,000	5,468	29,468
527	MESA	1	0	0	0	0	24,000	5,468	29,468
528	MESA	1	0	0	0	0	24,000	5,468	29,468
529	PHOENIX	3	0	0	0	0	24,000	5,468	29,468
530	PHOENIX	18	0	0	0	0	24,000	23,897	47,897
531	TEMPE	1	0	0	0	0	24,000	5,468	29,468
532	MESA	3	0	0	0	0	24,000	5,468	29,468
533	TEMPE	1	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
534 MESA		1	0	0	0	0	24,000	5,468	29,468
535 PHOENIX		1	0	0	0	0	24,000	5,468	29,468
536 GILBERT		2	0	0	0	0	24,000	5,468	29,468
537 GILBERT		1	0	0	0	0	24,000	5,468	29,468
538 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
539 CHANDLER		4	0	0	0	0	24,000	8,068	32,068
540 GILBERT		5	1	0	0	0	24,000	45,996	69,996
541 TEMPE		2	0	0	0	0	24,000	5,468	29,468
542 TEMPE		3	0	0	0	0	24,000	5,468	29,468
543 PHOENIX		2	0	0	0	0	24,000	5,468	29,468
544 TEMPE		1	0	0	0	0	24,000	5,468	29,468
545 TEMPE		1	0	0	0	0	24,000	5,468	29,468
546 TEMPE		2	0	0	0	0	24,000	5,468	29,468
547 TEMPE		2	0	0	0	0	24,000	5,468	29,468
548 TEMPE		8	0	0	0	0	24,000	16,136	40,136
549 TEMPE		5	0	0	0	0	24,000	16,136	40,136
550 PHOENIX		1	0	0	0	0	24,000	5,468	29,468
551 TEMPE		5	0	0	0	0	24,000	16,136	40,136
552 CHANDLER		2	0	0	0	0	24,000	5,468	29,468
553 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
554 PHOENIX		1	0	0	0	0	24,000	5,468	29,468
555 TEMPE		7	0	0	0	0	24,000	16,136	40,136
556 GILBERT		3	0	0	0	0	24,000	5,468	29,468
557 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
558 PHOENIX		2	0	0	0	0	24,000	5,468	29,468
559 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
560 TEMPE		1	0	0	0	0	24,000	5,468	29,468
561 CHANDLER		11	1	0	0	0	24,000	46,734	70,734
562 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
563 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
564 CHANDLER		8	0	0	0	0	24,000	16,136	40,136
565 CHANDLER		12	2	0	0	0	24,000	49,434	73,434
566 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
567 CHANDLER		2	0	0	0	0	24,000	5,468	29,468
568 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
569 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
570 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
571 CHANDLER		10	0	0	0	0	24,000	24,204	48,204
572 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
573 CHANDLER		1	0	0	0	0	24,000	5,468	29,468
574 CHANDLER		1	0	0	0	0	24,000	5,468	29,468

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DISTANCE BAND 2: 1,001 TO 2,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
575	CHANDLER	1	0	0	0	0	24,000	5,468	29,468
576	CHANDLER	1	0	0	0	0	24,000	5,468	29,468
577	CHANDLER	1	0	0	0	0	24,000	5,468	29,468
578	PICACHO	5	0	0	0	0	24,000	16,136	40,136
Sub-Totals		\$13,872,000	\$5,323,750						
# in this Study	3101						Sum of Total Cost	\$19,195,750	
# in this Band	578						Average of Total Cost	\$33,211	
							% of Addresses in this Band	18.64%	



Phoenix Fiber Study
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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
1	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
2	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
3	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
4	PHOENIX	7	0	0	0	0	44,500	16,136	60,636
5	PHOENIX	10	0	0	0	0	44,500	24,204	68,704
6	PHOENIX	6	1	0	0	0	44,500	45,996	90,496
7	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
8	PHOENIX	0	8	0	0	0	44,500	66,512	111,012
9	PHOENIX	0	0	0	3	0	44,500	156,936	201,436
10	PHOENIX	33	8	0	0	0	44,500	93,460	137,960
11	PHOENIX	0	1	0	0	0	44,500	44,520	89,020
12	PHOENIX	12	0	0	0	0	44,500	24,204	68,704
13	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
14	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
15	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
16	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
17	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
18	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
19	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
20	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
21	SCOTTSDALE	6	0	0	0	0	44,500	16,136	60,636
22	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
23	PHOENIX	7	0	0	0	0	44,500	16,136	60,636
24	GLENDALE	1	1	0	0	0	44,500	45,258	89,758
25	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
26	PEORIA	1	0	0	0	0	44,500	5,468	49,968
27	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
28	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
29	PHOENIX	6	0	0	0	0	44,500	16,136	60,636
30	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
31	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
32	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
33	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
34	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
35	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
36	GLENDALE	2	0	0	0	0	44,500	5,468	49,968
37	PHOENIX	6	0	0	0	0	44,500	16,136	60,636
38	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
39	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
40	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
41	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
42	PHOENIX	8	0	0	0	0	44,500	16,136	60,636

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
43	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
44	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
45	SCOTSDA	1	0	0	0	0	44,500	5,468	49,968
46	SCOTSDA	2	0	0	0	0	44,500	5,468	49,968
47	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
48	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
49	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
50	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
51	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
52	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
53	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
54	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
55	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
56	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
57	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
58	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
59	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
60	PHOENIX	8	1	0	0	0	44,500	45,996	90,496
61	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
62	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
63	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
64	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
65	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
66	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
67	SCOTTSDALE	4	0	0	0	0	44,500	8,068	52,568
68	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
69	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
70	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
71	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
72	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
73	SCOTTSDALE	4	0	0	0	0	44,500	8,068	52,568
74	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
75	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
76	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
77	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
78	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
79	GLENDALE	12	0	0	0	0	44,500	24,204	68,704
80	GLENDALE	3	0	0	0	0	44,500	5,468	49,968
81	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
82	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
83	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
84	YOUNGTOWN	0	1	0	0	0	44,500	44,520	89,020

Phoenix Fiber Study
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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
85	SUN CITY	2	0	0	0	0	44,500	5,468	49,968
86	PEORIA	1	0	0	0	0	44,500	5,468	49,968
87	SURPRISE	3	0	0	0	0	44,500	5,468	49,968
88	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
89	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
90	PEORIA	1	0	0	0	0	44,500	5,468	49,968
91	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
92	GLENDALE	3	0	0	0	0	44,500	5,468	49,968
93	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
94	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
95	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
96	GLENDALE	39	2	0	0	0	44,500	74,873	119,373
97	PEORIA	1	0	0	0	0	44,500	5,468	49,968
98	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
99	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
100	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
101	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
102	PHOENIX	3	1	0	0	0	44,500	45,258	89,758
103	SCOTTSDALE	5	0	0	0	0	44,500	16,136	60,636
104	PHOENIX	17	0	0	0	0	44,500	23,897	68,397
105	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
106	PHOENIX	8	2	0	0	0	44,500	48,696	93,196
107	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
108	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
109	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
110	SCOTTSDALE	7	1	0	0	0	44,500	45,996	90,496
111	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
112	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
113	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
114	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
115	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
116	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
117	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
118	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
119	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
120	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
121	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
122	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
123	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
124	GLENDALE	2	0	0	0	0	44,500	5,468	49,968
125	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
126	PHOENIX	2	0	0	0	0	44,500	5,468	49,968

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
127	PEORIA	1	0	0	0	0	44,500	5,468	49,968
128	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
129	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
130	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
131	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
132	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
133	SCOTTSDALE	3	0	0	0	0	44,500	5,468	49,968
134	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
135	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
136	SCOTTSDALE	6	0	0	0	0	44,500	16,136	60,636
137	SCOTTSDALE	6	0	0	0	0	44,500	16,136	60,636
138	SCOTTSDALE	5	0	0	0	0	44,500	16,136	60,636
139	SCOTTSDA	0	1	0	0	0	44,500	44,520	89,020
140	SCOTTSDA	5	0	0	0	0	44,500	16,136	60,636
141	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
142	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
143	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
144	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
145	PEORIA	1	0	0	0	0	44,500	5,468	49,968
146	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
147	PEORIA	1	0	0	0	0	44,500	5,468	49,968
148	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
149	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
150	PEORIA	1	0	0	0	0	44,500	5,468	49,968
151	SCOTTSDALE	4	0	0	0	0	44,500	8,068	52,568
152	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
153	SCOTTSDALE	4	0	0	0	0	44,500	8,068	52,568
154	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
155	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
156	SCOTTSDALE	14	0	0	0	0	44,500	23,192	67,692
157	PHOENIX	6	0	0	0	0	44,500	16,136	60,636
158	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
159	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
160	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
161	SCOTTSDALE	10	0	0	0	0	44,500	24,204	68,704
162	SCOTTSDA	1	0	0	0	0	44,500	5,468	49,968
163	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
164	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
165	PARADISE VALLEY	1	0	0	0	0	44,500	5,468	49,968
166	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
167	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
168	PHOENIX	0	2	0	0	0	44,500	47,220	91,720

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
169	SCOTTSDALE	3	0	0	0	0	44,500	5,468	49,968
170	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
171	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
172	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
173	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
174	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
175	PHOENIX	20	2	0	0	0	44,500	50,910	95,410
176	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
177	GLENDALE	1	0	0	0	0	44,500	5,468	49,968
178	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
179	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
180	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
181	PHOENIX	10	0	0	0	0	44,500	24,204	68,704
182	PHOENIX	1	2	0	0	0	44,500	47,958	92,458
183	SCOTTSDALE	3	0	0	0	0	44,500	5,468	49,968
184	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
185	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
186	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
187	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
188	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
189	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
190	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
191	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
192	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
193	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
194	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
195	PHOENIX	9	1	0	0	0	44,500	46,734	91,234
196	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
197	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
198	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
199	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
200	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
201	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
202	PHOENIX	21	0	0	0	0	44,500	24,602	69,102
203	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
204	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
205	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
206	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
207	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
208	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
209	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
210	PHOENIX	2	0	0	0	0	44,500	5,468	49,968

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
211	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
212	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
213	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
214	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
215	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
216	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
217	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
218	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
219	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
220	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
221	PHOENIX	16	0	0	0	0	44,500	23,192	67,692
222	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
223	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
224	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
225	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
226	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
227	SCOTTSDALE	7	0	0	0	0	44,500	16,136	60,636
228	SCOTTSDALE	6	0	0	0	0	44,500	16,136	60,636
229	SCOTTSDALE	5	0	0	0	0	44,500	16,136	60,636
230	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
231	SCOTTSDALE	5	0	0	0	0	44,500	16,136	60,636
232	SCOTTSDALE	9	0	0	0	0	44,500	24,204	68,704
233	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
234	PHOENIX	9	0	0	0	0	44,500	24,204	68,704
235	PHOENIX	14	0	0	0	0	44,500	23,192	67,692
236	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
237	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
238	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
239	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
240	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
241	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
242	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
243	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
244	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
245	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
246	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
247	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
248	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
249	SCOTTSDALE	10	0	0	0	0	44,500	24,204	68,704
250	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
251	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
252	SCOTTSDALE	10	0	0	0	0	44,500	24,204	68,704

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
253	SCOTTSDALE	7	0	0	0	0	44,500	16,136	60,636
254	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
255	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
256	SCOTTSDALE	2	0	0	0	0	44,500	5,468	49,968
257	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
258	SCOTTSDALE	21	0	0	0	0	44,500	24,602	69,102
259	PHOENIX	1	1	0	0	0	44,500	45,258	89,758
260	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
261	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
262	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
263	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
264	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
265	MESA	1	0	0	0	0	44,500	5,468	49,968
266	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
267	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
268	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
269	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
270	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
271	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
272	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
273	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
274	PHOENIX	27	0	0	0	0	44,500	25,307	69,807
275	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
276	PHOENIX	16	1	0	0	0	44,500	47,472	91,972
277	PHOENIX	15	2	0	0	0	44,500	50,172	94,672
278	PHOENIX	19	0	0	0	0	44,500	23,897	68,397
279	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
280	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
281	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
282	SCOTTSDALE	5	0	0	0	0	44,500	16,136	60,636
283	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
284	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
285	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
286	PHOENIX	13	1	0	0	0	44,500	47,472	91,972
287	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
288	SCOTTSDALE	4	0	0	0	0	44,500	8,068	52,568
289	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
290	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
291	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
292	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
293	MESA	1	0	0	0	0	44,500	5,468	49,968
294	PHOENIX	1	0	0	0	0	44,500	5,468	49,968

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
295	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
296	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
297	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
298	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
299	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
300	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
301	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
302	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
303	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
304	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
305	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
306	PHOENIX	9	0	0	0	0	44,500	24,204	68,704
307	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
308	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
309	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
310	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
311	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
312	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
313	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
314	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
315	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
316	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
317	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
318	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
319	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
320	PHOENIX	10	0	0	0	0	44,500	24,204	68,704
321	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
322	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
323	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
324	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
325	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
326	MESA	4	0	0	0	0	44,500	8,068	52,568
327	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
328	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
329	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
330	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
331	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
332	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
333	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
334	SCOTTSDALE	4	0	0	0	0	44,500	8,068	52,568
335	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
336	PHOENIX	1	0	0	0	0	44,500	5,468	49,968

Phoenix Fiber Study
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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
337	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
338	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
339	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
340	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
341	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
342	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
343	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
344	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
345	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
346	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
347	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
348	MESA	1	0	0	0	0	44,500	5,468	49,968
349	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
350	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
351	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
352	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
353	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
354	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
355	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
356	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
357	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
358	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
359	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
360	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
361	SCOTTSDALE	1	0	0	0	0	44,500	5,468	49,968
362	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
363	TOLLESON	1	0	0	0	0	44,500	5,468	49,968
364	MESA	2	0	0	0	0	44,500	5,468	49,968
365	MESA	1	0	0	0	0	44,500	5,468	49,968
366	MESA	1	0	0	0	0	44,500	5,468	49,968
367	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
368	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
369	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
370	PHOENIX	40	0	0	0	0	44,500	47,794	92,294
371	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
372	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
373	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
374	TEMPE	1	0	0	0	0	44,500	5,468	49,968
375	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
376	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
377	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
378	PHOENIX	3	0	0	0	0	44,500	5,468	49,968

Phoenix Fiber Study
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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
379	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
380	2	2	0	0	0	0	44,500	5,468	49,968
381	TOLLESON	1	0	0	0	0	44,500	5,468	49,968
382	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
383	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
384	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
385	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
386	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
387	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
388	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
389	TEMPE	1	0	0	0	0	44,500	5,468	49,968
390	TEMPE	1	0	0	0	0	44,500	5,468	49,968
391	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
392	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
393	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
394	PHOENIX	12	0	0	0	0	44,500	24,204	68,704
395	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
396	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
397	TOLLESON	3	0	0	0	0	44,500	5,468	49,968
398	PHOENIX	16	0	0	0	0	44,500	23,192	67,692
399	PHOENIX	5	0	0	0	0	44,500	16,136	60,636
400	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
401	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
402	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
403	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
404	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
405	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
406	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
407	PHOENIX	10	0	0	0	0	44,500	24,204	68,704
408	AVONDALE	1	0	0	0	0	44,500	5,468	49,968
409	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
410	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
411	GILBERT	1	0	0	0	0	44,500	5,468	49,968
412	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
413	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
414	MESA	2	0	0	0	0	44,500	5,468	49,968
415	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
416	TEMPE	5	0	0	0	0	44,500	16,136	60,636
417	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
418	GILBERT	1	0	0	0	0	44,500	5,468	49,968
419	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
420	GILBERT	1	0	0	0	0	44,500	5,468	49,968

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
421	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
422	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
423	MESA	1	0	0	0	0	44,500	5,468	49,968
424	MESA	1	0	0	0	0	44,500	5,468	49,968
425	TEMPE	2	0	0	0	0	44,500	5,468	49,968
426	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
427	CHANDLER	2	0	0	0	0	44,500	5,468	49,968
428	TEMPE	1	0	0	0	0	44,500	5,468	49,968
429	TEMPE	3	0	0	0	0	44,500	5,468	49,968
430	TEMPE	1	0	0	0	0	44,500	5,468	49,968
431	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
432	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
433	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
434	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
435	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
436	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
437	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
438	FLORENCE	1	0	0	0	0	44,500	5,468	49,968
439	MESA	1	0	0	0	0	44,500	5,468	49,968
440	MESA	1	0	0	0	0	44,500	5,468	49,968
441	MESA	9	0	0	0	0	44,500	24,204	68,704
442	MESA	1	0	0	0	0	44,500	5,468	49,968
443	GILBERT	1	0	0	0	0	44,500	5,468	49,968
444	MESA	1	0	0	0	0	44,500	5,468	49,968
445	MESA	3	0	0	0	0	44,500	5,468	49,968
446	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
447	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
448	MESA	11	0	0	0	0	44,500	24,204	68,704
449	MESA	2	0	0	0	0	44,500	5,468	49,968
450	MESA	3	0	0	0	0	44,500	5,468	49,968
451	GILBERT	1	0	0	0	0	44,500	5,468	49,968
452	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
453	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
454	MESA	2	0	0	0	0	44,500	5,468	49,968
455	MESA	1	0	0	0	0	44,500	5,468	49,968
456	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
457	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
458	GILBERT	1	0	0	0	0	44,500	5,468	49,968
459	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
460	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
461	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
462	MESA	1	0	0	0	0	44,500	5,468	49,968

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
463	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
464	MESA	1	0	0	0	0	44,500	5,468	49,968
465	MESA	2	0	0	0	0	44,500	5,468	49,968
466	MESA	1	0	0	0	0	44,500	5,468	49,968
467	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
468	MESA	2	0	0	0	0	44,500	5,468	49,968
469	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
470	TEMPE	1	0	0	0	0	44,500	5,468	49,968
471	TEMPE	1	0	0	0	0	44,500	5,468	49,968
472	TEMPE	1	0	0	0	0	44,500	5,468	49,968
473	TEMPE	1	0	0	0	0	44,500	5,468	49,968
474	TEMPE	17	0	0	0	0	44,500	23,897	68,397
475	TEMPE	4	0	0	0	0	44,500	8,068	52,568
476	PHOENIX	4	0	0	0	0	44,500	8,068	52,568
477	MESA	1	0	0	0	0	44,500	5,468	49,968
478	MESA	1	0	0	0	0	44,500	5,468	49,968
479	MESA	1	0	0	0	0	44,500	5,468	49,968
480	MESA	1	0	0	0	0	44,500	5,468	49,968
481	MESA	2	0	0	0	0	44,500	5,468	49,968
482	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
483	MESA	2	0	0	0	0	44,500	5,468	49,968
484	TEMPE	1	0	0	0	0	44,500	5,468	49,968
485	TEMPE	1	0	0	0	0	44,500	5,468	49,968
486	MESA	3	0	0	0	0	44,500	5,468	49,968
487	MESA	6	0	0	0	0	44,500	16,136	60,636
488	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
489	MESA	1	0	0	0	0	44,500	5,468	49,968
490	MESA	2	0	0	0	0	44,500	5,468	49,968
491	TEMPE	2	0	0	0	0	44,500	5,468	49,968
492	MESA	4	0	0	0	0	44,500	8,068	52,568
493	TEMPE	1	0	0	0	0	44,500	5,468	49,968
494	MESA	1	0	0	0	0	44,500	5,468	49,968
495	TEMPE	4	0	0	0	0	44,500	8,068	52,568
496	TEMPE	1	0	0	0	0	44,500	5,468	49,968
497	TEMPE	2	0	0	0	0	44,500	5,468	49,968
498	TEMPE	2	0	0	0	0	44,500	5,468	49,968
499	MESA	1	0	0	0	0	44,500	5,468	49,968
500	TEMPE	1	0	0	0	0	44,500	5,468	49,968
501	APACHE JUNCTION	3	0	0	0	0	44,500	5,468	49,968
502	TEMPE	1	0	0	0	0	44,500	5,468	49,968
503	GILBERT	4	0	0	0	0	44,500	8,068	52,568
504	TEMPE	17	0	0	0	0	44,500	23,897	68,397

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
505	TEMPE	8	0	0	0	0	44,500	16,136	60,636
506	TEMPE	1	0	0	0	0	44,500	5,468	49,968
507	GILBERT	3	0	0	0	0	44,500	5,468	49,968
508	GILBERT	1	0	0	0	0	44,500	5,468	49,968
509	GILBERT	1	2	0	0	0	44,500	47,958	92,458
510	GILBERT	0	1	0	0	0	44,500	44,520	89,020
511	GILBERT	246	25	0	0	0	44,500	283,387	327,887
512	GILBERT	21	3	0	0	0	44,500	74,522	119,022
513	GILBERT	0	11	0	0	0	44,500	73,612	118,112
514	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
515	GILBERT	1	0	0	0	0	44,500	5,468	49,968
516	GILBERT	1	0	0	0	0	44,500	5,468	49,968
517	MESA	1	0	0	0	0	44,500	5,468	49,968
518	TEMPE	4	0	0	0	0	44,500	8,068	52,568
519	GILBERT	1	0	0	0	0	44,500	5,468	49,968
520	MESA	3	0	0	0	0	44,500	5,468	49,968
521	GILBERT	1	0	0	0	0	44,500	5,468	49,968
522	GILBERT	1	0	0	0	0	44,500	5,468	49,968
523	CHANDLER	4	0	0	0	0	44,500	8,068	52,568
524	TEMPE	3	0	0	0	0	44,500	5,468	49,968
525	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
526	TEMPE	1	0	0	0	0	44,500	5,468	49,968
527	TEMPE	2	0	0	0	0	44,500	5,468	49,968
528	TEMPE	2	0	0	0	0	44,500	5,468	49,968
529	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
530	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
531	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
532	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
533	PHOENIX	2	0	0	0	0	44,500	5,468	49,968
534	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
535	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
536	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
537	PHOENIX	1	0	0	0	0	44,500	5,468	49,968
538	PHOENIX	3	0	0	0	0	44,500	5,468	49,968
539	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
540	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
541	CHANDLER	3	0	0	0	0	44,500	5,468	49,968
542	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
543	CHANDLER	1	0	0	0	0	44,500	5,468	49,968
544	CHANDLER	3	0	0	0	0	44,500	5,468	49,968
545	CHANDLER	11	2	0	0	0	44,500	49,434	93,934
546	CHANDLER	1	0	0	0	0	44,500	5,468	49,968

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DISTANCE BAND 3: 2,001 TO 4,000 FT FROM NEAREST CAP FIBER ROUTE

KEY	CITY	DS1	DS3	OC-3	OC-12	OC-48	PATH COST	EQPT COST	TOTAL COST
547 CHANDLER		9	3	0	0	0	44,500	74,124	118,624
548 CHANDLER		1	0	0	0	0	44,500	5,468	49,968
549 CHANDLER		11	0	0	0	0	44,500	24,204	68,704
550 CHANDLER		1	0	0	0	0	44,500	5,468	49,968
551 CHANDLER		2	0	0	0	0	44,500	5,468	49,968
552 CHANDLER		2	0	0	0	0	44,500	5,468	49,968
553 CHANDLER		1	0	0	0	0	44,500	5,468	49,968
554 CHANDLER		3	0	0	0	0	44,500	5,468	49,968
555 CHANDLER		1	0	0	0	0	44,500	5,468	49,968
556 CHANDLER		1	0	0	0	0	44,500	5,468	49,968
557 CHANDLER		1	0	0	0	0	44,500	5,468	49,968
558 CHANDLER		1	0	0	0	0	44,500	5,468	49,968
559 CHANDLER		3	0	0	0	0	44,500	5,468	49,968
560 SACATON		1	0	0	0	0	44,500	5,468	49,968
561 ELOY		2	0	0	0	0	44,500	5,468	49,968
Sub-Totals							\$24,964,500	\$5,703,867	
# in this Study	3101						Sum of Total Cost	\$30,668,367	
# in this Band	561						Average of Total Cost	\$54,667	
							% of Addresses in this Band	18.09%	